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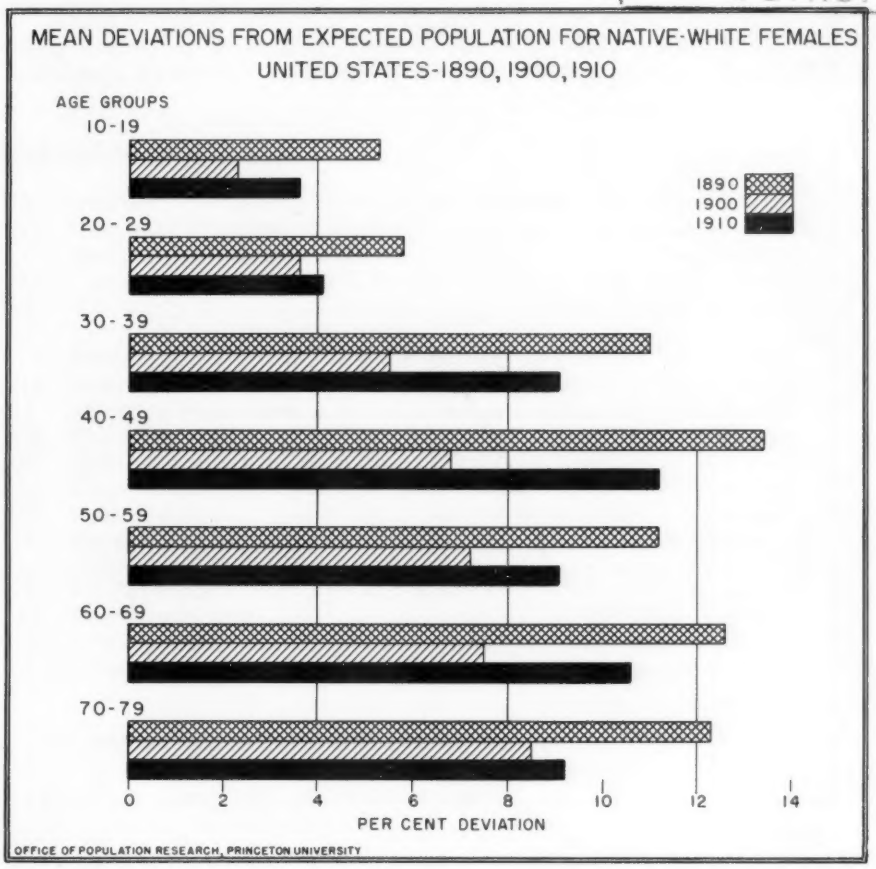

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POPULATION INDEX

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CURRENT ITEMS

REPORT OF THE COMMITTEE ON THE 1960 CENSUS POPULATION ASSOCIATION OF AMERICA

The Committee on the 1960 Census was appointed by Joseph J. Spengler, President of the Population Association of America, in May, 1956, pursuant to a letter of 23 May from Robert W. Burgess, Director, Bureau of the Census. In his letter Mr. Burgess indicated that the "Bureau of the Census would welcome the advice of the Association and its members" on such matters as "subjects to be included in the next Population Census as well as the definitions of such items" and "any others on which you may wish to take the initiative." The Committee consists of Ronald Freedman, Frank W. Notestein, Daniel O. Price, Dorothy S. Thomas, Otis Dudley Duncan, co-chairman, and Philip M. Hauser, co-chairman. (Thomas participated only in the initial phases of organizing the Committee's work, and not in the preparation of its report and recommendations.) The first meeting of the Committee was held in July, 1956, at which time a proposal was developed for financing its work. The Association then presented a request for financial assistance for the Committee's work to the Population Council, Inc., and the Council approved this request in November. In the meantime, the Committee proceeded to solicit the cooperation of nine work groups, or subcommittees, as explained below. Subsequent meetings of the Committee were held in April and May, 1957.

The plan of work developed by the Committee fell into two major parts: first, the preparation of detailed reports and recommendations on major problems in census planning by the associated work groups; second, the review of these documents by the Committee and preparation of its summary report and recommendations.

At every stage of its work, the Committee has enjoyed the most helpful cooperation of the Bureau of the Census. Particularly valuable was the designation by the Bureau of a member of its professional staff to serve as liaison with each work group. Persons serving in this capacity included Howard G. Brunsman, Paul C. Glick, Henry D. Sheldon, Henry S. Shryock, Jr., and Conrad Taeuber.

It should be made clear at the outset that the principal criterion observed by the several work groups and by the Committee was the use of census data for scientific research in demography and closely related disciplines. While mindful of the many uses that must be served by the census, these groups considered that their recommendations would be most valuable if presented consistently from this point of view. It hardly needs to be added that in few, if any, respects are the scientific needs for census statistics in any basic conflict with needs arising from the conduct of government, business, and practical affairs.

1. Review of Work Group Recommendations

The final report of each work group has been transmitted by the Committee to the Bureau of the Census in the form in which it was received by the Committee. While the Committee has made suggestions to the work groups as to subjects to consider, format of their reports, and the like, each work group has been free to formulate recommendations on its own responsibility. This summary singles out only some of

the more significant recommendations. In each case, reference should be made to the work group report for details and supporting materials.

(1) Accuracy and reliability of basic demographic data. The work group feels that the reduction of enumeration errors is of the highest importance. In its judgment, this end is most likely to be achieved if attention is focused on categories of the population known to be most poorly enumerated, rather than on an overall effort to improve completeness and accuracy of enumeration. There are two key recommendations on enumeration procedures. First, it is proposed that a dual enumeration of unrelated individuals be carried out. The enumerator would take information on these persons in the usual manner, and, in addition, leave a self-enumeration form to be filled out by the individual, which would be picked up later and used to correct and amplify the information obtained in the interview. Second, it is proposed that the question, "date of birth," be asked in addition to the usual question, "age at last birthday." Evidence is presented that this approach produces a reduction in errors of age statement.

The work group indicates that it is almost as important to make accurate estimates of the errors in census data as to attempt to reduce these errors. Accordingly, it recommends that an expanded and more effective Post-Enumeration Survey be carried out in connection with the 1960 Census. In addition, it suggests that a name-by-name matching of persons 65 years old and over as reported in the census be made against the OASI list of current beneficiaries as of April, 1960.

(2) Census areas and residential categories. The work group endorsed proposed changes in the classification of states by census divisions and regions, with the suggestion that an "Upper New England" and "Lower New England" grouping of the New England states be recognized along with other proposed changes. The work group, however, does not consider that a regrouping of states by regions and divisions has high priority as far as research uses are concerned, and points out the dangers involved in loss of historical continuity with the old system.

The work group argues against any thoroughgoing revision of the present delimitation of state economic areas, over and above such changes as will be required to adapt them to changes of counties according to metropolitan status. Emphasis should be placed, therefore, on maintaining comparability with the previous delimitation, and on the provision of much more detailed tabulations for state economic areas, comparable in scope to those prepared for the smaller standard metropolitan areas.

The work group recommends against any shift in procedure that would have the effect of lowering the size limit for central cities of standard metropolitan areas. It suggests a review of present SMA delimitations on the supposition that a number of the smaller areas now recognized should be regrouped with adjacent larger units. It indicates, moreover, the desirability of reviewing criteria of metropolitan integration, with recognition of at least one non-commuting criterion, preferably metropolitan newspaper circulation.

The delineation of urbanized areas for all central cities of 25,000 inhabitants or more is endorsed by the work group, which feels that a somewhat more restrictive criterion of contiguity to the main core of the area should be followed in recognizing fringe elements of the urbanized area.

The work group proposes a new residential classification, involving the following categories:

Metropolitan
- Urban
- Remainder (villages, unincorporated places, and open country)

Nonmetropolitan
- Urban
- Villages and unincorporated places of 500-2,500 inhabitants
- Open country

Whereas the "urban" category would remain essentially the same as in 1950, the "rural nonfarm" and "rural farm" categories would be replaced. To meet administrative needs for a count of the farm population and to provide splicing statistics, the work group recommends that the question on farm residence be asked of a 20 or 25 per cent sample of the population.

(3) Migration statistics. This work group recommends following the 1950 procedure of asking for residence one year prior to the census date. However, it suggests the restoration of the form of the 1940 question which called for place as well as county of previous residence. This information would be used only to tabulate migration between the central city and the remainder of metropolitan areas. The basis of this recommendation is the great need for statistics on volume and characteristics of movement to and from suburbs. The work group notes that there is possibility of error in that persons who were living near central cities are likely to report the central city as their residence. However, it is believed that this error will be reduced to manageable proportions, (a) by confining the migration interval to a one-year, instead of a five-year, period, and (b) by tabulating the movement to and from large cities only for streams of movement within metropolitan areas, on the assumption that the error is most likely to appear in connection with long-distance migration.

The work group suggests that the question on residence a year ago be supplemented by a question calling for length of residence in the present house for persons not moving within the last year. This would essentially repeat the procedure of the April, 1952, mobility survey (see Current Population Reports, Series P-20, No. 47).

The work group recommends that state-of-birth tabulations be given in greater detail showing socio-economic characteristics, and recent migration, in addition to age, sex, and color; it is also recommended that such tabulations be made for large cities.

(4) Fertility and nuptiality. A considerable portion of this work group's report involves detailed consideration of fertility tabulations, which are too lengthy to summarize here. On the general form of the inquiry, the work group recommends that the question on "children ever borne" be carried on the schedule, as in the past, but that the tabulations be more extensive in respect to cross-tabulations with such characteristics of the husband as income and detailed occupation.

In addition, the following alternatives to past census procedures are recommended. There should be a new question to ascertain the number of children borne in the last five years; tabulations of these data would supersede those on number of own children in the household. The reporting of marital status should allow for an additional category, "marriage annulled"; persons falling in this category should be included with the "ever married" rather than with the "never married." Attention

should be given to the publication of greater detail on the duration of marriage, but the information on duration of widowhood and divorced status is not believed to be sufficiently useful to justify extended presentation. A strong recommendation is made for the collection of complete rosters of birth dates for children ever borne; this would be done in the Current Population Survey, to supplement information in the decennial census. The work group endorses suggestions originating elsewhere for the inclusion of an inquiry on religion, and recommends cross-tabulation of children ever borne for religious groups and for specific ethnic groups as well.

(5) Race-nativity and color. The work group recommends no innovations in inquiries and definitions in this field, but addressed itself to methods of improving information within the framework of the kinds of inquiries previously made. It is recommended that separate tabulations of characteristics of the Negro population be made for all counties and cities of 10,000 or more inhabitants having more than a certain minimum of Negro population. This involves a change in procedures that recognizes the importance of distinguishing between Negroes and other nonwhites and the sizable and growing concentrations of Negroes in areas outside the South. To facilitate identification of the population of Puerto Rican extraction, instructions for questions on place of birth, place of residence a year ago, and place of birth of parents should indicate "Commonwealth of Puerto Rico" as a specific alternative in lieu of the previous terminology which merely called for "name of Territory, possession, or foreign country." It is further recommended that the 1950 procedure of identifying persons of Spanish surname be extended to areas other than the five southwestern states, and that this characteristic be cross-tabulated with mother tongue or place of birth of parents.

The work group feels that there is great value in asking both questions, "place of birth of parents" and "mother tongue" (the expression "native tongue" may be preferable to the latter). "Mother tongue" is valuable, not only in providing information not yielded by the other question, but also as an aid in coding it more reliably. If a preference as between the two questions must be expressed, the work group leans toward the "mother tongue" inquiry.

(6) Journey to work. The work group proposes an extensive inquiry on this subject covering metropolitan areas. It suggests that information be obtained by means of a self-enumeration form filled out by a sample of 25 per cent of the entire working population. The form would call for address of workplace, mode of travel to work (specific modes, in the sequence in which used), time of departure and time of arrival at work. This information would be coded by county, municipality or minor civil division, and census tract (where census tract coding manuals are available). It is suggested that detailed coding could be carried out in cooperation with responsible authorities in the individual standard metropolitan areas. Detailed tabulation proposals are given in the group report, together with a ranking by priority of the needed information. It is indicated that characteristics of the journey to work should be cross-tabulated with economic and household characteristics. The work group also recommends a question on automobile ownership for each household.

(7) Religion. The work group points out that a majority of countries include a question on religion in their censuses. It indicates that census information on this subject would serve a wide variety of important research uses, and that both foreign census experience and Amer-

ican survey experience show the feasibility of collecting such information. Considering the need for religious data to be well established, the work group recommends (a) that an inquiry on religion be included among questions addressed to the proposed 25 per cent sample; (b) that an inquiry on religion in the Current Population Survey not be regarded as an effective substitute for a census enumeration; (c) that if only one question is asked, first consideration be given to a question on religious preference, second consideration to a question on membership in religious bodies; (d) that if more than one question is asked, the additional ones be designed to ascertain membership or affiliation; (e) that no question be included on subjective religious belief, religious practice, or extent of religious observance; (f) that the respondent be given the option of indicating no preference, of declining to state a preference, or of stating it in a general category such as "Protestant"; (g) that tabulations be presented for small areas in terms of major groups (e.g., Protestant, Catholic, Jewish, other, and no preference), that demographic composition of major groups be given for cities and metropolitan areas, and that detailed cross-tabulations of fertility and marital status by religion be given at the national level.

One member of the work group (Lorimer), while endorsing the group's "review of relevant objective conditions," abstained with respect to its recommendations "for reasons outside the purview of the report."

(8) Measurement of socio-economic status. The work group, after reviewing a variety of possibilities, concluded that the principal attack on this problem in census procedures must involve an occupational classification primarily. It indicated the desirability of maintaining historical comparability with respect to the major occupation group classification, while introducing subclassifications to sharpen the delineation of socio-economic levels. While acknowledging the desirability of direct measures of level of living, the group was unable to propose a measurement technique suitable for census use. It was pointed out that improvement of the enumeration of occupations is critical for the measurement of socio-economic status. The work group recommended that major occupation groups be subclassified according to the median income levels of occupations within the major groups for all but the smallest area tabulations; that additional cross-tabulations of socio-economic variables with housing variables be provided, along with tabulations relating school attendance of young persons to socio-economic status; and that consideration be given to a question on occupation of the father of the male head of the household, either in the 1960 Census or in the Current Population Survey.

(9) Family statistics. The Committee has received a preliminary memorandum on this subject from N. B. Ryder; this memorandum is in process of revision, and has not yet been reviewed by the Committee. In its present form the memorandum raises a number of critical questions about the value and adequacy of present census procedures in respect to identification of household head, treatment of institutional population, classification of primary and secondary families and individuals, and the sociological rationale of census classifications of types of families.

2. Summary of Committee Recommendations

The Committee's first, and most important, recommendation is that the several work group reports be studied carefully. Each of them was evidently prepared with great care by professional research work-

ers of the highest competence. At only a few points has the Committee ventured a specific difference of opinion with a work group. In such cases it was influenced by the necessity of considering the feasibility of proposed procedures and the problem of balance in the entire census program.

In this Report, the Committee confines its attention to certain key issues of subject matter and procedure. It expects, at a later date, to make recommendations to the Bureau of the Census on tabulations, conceptual problems involving tabulations primarily, and other items of census procedure.

(1) Additions to census program. In considering possible additions to the census schedule, the Committee was aware of distinct limitations imposed by costs; it has, therefore, limited its suggestions to items of high priority, and has indicated two levels of priority within this category.

Items considered to have highest priority (not necessarily listed in order of importance) include: date of birth, journey to work, religion, birth rosters (to be obtained in conjunction with the Post-Enumeration Survey), date of termination of marriage (in the PES), and place (in addition to county) of residence in 1959. Items considered to have next highest priority include: mother tongue (in addition to place of birth of parents), and length of residence in this place (for persons residing at the present place of residence for more than one year). Each of these items merits some additional discussion.

In the Committee's judgment, the question on date of birth (asked in addition to age at last birthday) provides the most promising overall approach to the problem of reducing errors of age statement. The importance of such an improvement for virtually all demographic studies goes without saying, and the evidence that a date-of-birth question will effect an improvement has been well summarized in the report of the work group on accuracy and reliability of basic demographic data. At present, the investigation of such topics as fertility, mortality at the higher ages, and mobility of the young adult population is severely handicapped by biases in age statement. The accuracy of age statements is almost universally recognized as a critical test of the quality of a census.

The inquiry on journey to work, aside from its obvious usefulness to city planners, traffic specialists, civil defense authorities, and other officials, will be of great value for research on the structure and functioning of our metropolitan communities. It will provide information, which is otherwise unobtainable, on the social and economic costs of commutation, the groups and categories on which these costs are incident, the locational pattern of industry, and the determinants of metropolitan land use.

In the opinion of the Committee an inquiry on this subject is feasible within the framework of a decennial enumeration and can be accomplished at a reasonable cost. There are, however, a number of alternatives as to the scope and form of the inquiry, which vary widely as to cost. Consequently, the Committee recommends not only that the suggestions of the work group on journey to work be considered carefully, but also that the Bureau of the Census carry out appropriate preliminary trials to test the effectiveness of an alternative plan.

Briefly, the alternative plan is as follows. The inquiry would attempt to identify movements only between certain broad sectors of the

metropolitan area. The census enumerator would carry a sketch map showing clearly the boundaries of the metropolitan area, the central city, and the central business district, together with sectors or quadrants within the city (outside the central business district) and within the metropolitan ring. These areas would be coded with a single digit, with a residual category for movement outside the metropolitan area. The question, therefore, would be self-coding, involving no office procedure for converting addresses to tracts or other areas. It would, of course, be necessary to identify the areal segments in advance, preferably in consultation with local specialists, with a view toward ready identifiability of the boundaries. The 1954 Retail Census has already done much of the work in delimiting central business districts. While it is recognized that marginal cases would arise, and that there would be some response error, it is believed that the results would be valid, nonetheless, for the kinds of uses contemplated. While no substitute for the complete origin-destination survey needed by traffic planners, this scheme should provide a great deal of presently unavailable data on traffic flows for research purposes and should serve as a general framework for planning.

Recognition should be given as well to the following needs, in the event that cost considerations permit their coverage in the census. There is a need for information on movement in nonmetropolitan areas; however, an inquiry along these lines was not considered carefully by the work group or the Committee, and would evidently have to be along somewhat different lines than proposed by either. It should be possible to ask a simple (yes or no) question such as "Does the trip to work usually involve the use of a private automobile?" or "Does the trip usually involve public transportation?" This kind of question would have value, even in the absence of detailed information on mode of travel. Similarly, a simple question might be employed to procure an estimate of elapsed time in the trip to work. A question on automobile ownership would have uses from the standpoint of measuring levels of living, quite apart from its uses in studying population movement. It is recognized that questions such as those mentioned in this paragraph might be carried in a Current Population Survey to provide general information on the journey to work in relation to socio-economic characteristics, without being tied to a question on specific destination. Their value here would be less, but still great.

The proposed inquiry on <u>religion</u>, in the form proposed by the work group, is recommended for consideration, not especially on the grounds that it would be useful to churches seeking to measure their membership — though this use merits consideration — but primarily because of its varied uses in demographic and social research. A number of small-scale studies in recent years have demonstrated that differences in social behavior among adherents of different religions are sizable and significant, even when variables like ethnic and socio-economic status are controlled. The Committee calls attention to the role of religion as a major social institution, and to the wide ramifications of religious affiliation in a complex society. Religious preference is a basic identification of the individual which illuminates the meaning of many other aspects of behavior — on the demographic side, notably fertility.

The Committee is of the opinion that most of the research needs for religious data could be met without undertaking a detailed tabulation of denominations by small areas. There is need, however, for small-area figures in such broad categories as Protestant, Catholic, Jewish, Other, and No Preference. Cross-tabulations of religion are needed for fertility studies, in particular.

In recommending the inclusion of an inquiry on religion in the 1960 Census, the Committee has adhered closely to its terms of reference, i.e., to evaluate the census program in terms of its usefulness for demographic and related scientific research. It believes that religious statistics would be of great scientific utility. However, it is mindful of the many complex issues raised by the proposal that such statistics be collected by an agency of the federal government, and considers it highly important that these issues be resolved in such a way that no damage is done to the overall census program.

An additional inquiry on fertility, i.e., rosters of children ever borne by year and month of birth, is considered feasible for inclusion in an expanded Post-Enumeration Survey covering, say, at least 100,000 households. It would be necessary, in addition, to carry the previous question on total number of children ever borne on the regular census schedule, but there would be less need for the inquiry (recommended by the work group on fertility) on number of children borne in the last five years.

Obtaining date of birth for children ever borne would meet pressing needs for information to illuminate the implications of the high birth rates observed since World War II; to assess their significance for future population, school enrollments, and manpower supply; and to estimate trends in patterns of family building. In the absence of suitable vital statistics on marriage and the intervals between births, a census inquiry of this type is the only method available for determining the cumulative fertility of marriage cohorts.

Many of the suggestions for tabulations made by the work group on fertility would be pertinent for a question of this kind, insofar as they could be implemented within the framework of the PES type of survey.

To maximize the usefulness of the fertility data collected from birth rosters, it is necessary to have an additional question on duration of marriage. For all women 45 years old and over who were ever married but are not now married, the date of termination of marriage should be ascertained. This will permit a distinction in the fertility tabulations between women whose fertility was curtailed by the disruption of their marriages before the end of the childbearing period and those exposed to the risk of childbearing throughout the fertile period. In studies of patterns of family building it is obviously most desirable to treat separately the families remaining intact through the childbearing period and those broken before the end of this period.

The inquiry on place of residence in 1959 entails only minor modification of the 1950 census schedule, and some additional work in coding. The importance of the question is easily seen when one realizes that one of the major currents of migration — the movement between central cities and metropolitan rings — cannot be measured or characterized with statistics giving only county of previous residence. There is at present great uncertainty among planners and students of metropolitan life as to the sources of suburban population growth, the selectivity of movement to the suburbs, and the extent to which there is a circulation of population between central and peripheral locations as opposed to a unilateral shift toward the suburbs.

The two items suggested for the second level of priority amount to a supplementation of information which, it is assumed, will be collected along the lines of previous censuses. The item, mother tongue, is needed to supplement data on place of birth and parents' place of birth.

The Committee is aware of pressures to reduce the amount of information on ethnic status, on the assumption that the proportion of foreign stock in the population will continue to decrease. However, it considers that it is almost as important to measure the decline in the extent of ethnic differentiation — if, indeed, it is declining — as to have a historical record of the period of heavy immigration. The experience of the United States in the assimilation of a diversity of ethnic groups is virtually without parallel in the modern world, and the record of that experience should not be truncated by a failure to describe the terminal, as well as the early and middle, phases of the cycle of immigration and assimilation.

The question on "mother tongue" is valuable precisely because it gets at the persistence of ethnic identification beyond the point in time when the latter is indexed adequately by birth place or country of parents' origin. It pertains to a critical behavioral indication of ethnic affiliation in contrast to the somewhat legalistic information provided by the questions on place of birth. The mother tongue query will enable the identification of certain important groups — e.g., Spanish-Americans — that have retained a degree of ethnic distinctiveness despite residence of several generations in the United States. As a technical matter, the mother tongue item will be of use in coding ambiguous entries on place of birth of the individual or his parents.

To supplement the migration question on place of residence a year ago, a second question, length of residence in this place (asked of persons residing in place of current residence over one year), is needed. Whereas the one-year migration question provides information on current movement, the proposed supplementary question permits the measurement of the cumulative effect of migration over a period of years when cross-tabulated by characteristics of individuals. The experience of the Detroit Area Survey has shown that this type of question yields significant information on migration patterns not otherwise obtainable.

It will be noted that the Committee's recommendation calls for a question on length of residence in this place, in contrast to the recommendation of the work group on migration, which suggests an inquiry on length of residence in this house. Both questions are significant. The Committee's judgment is that the former would prove more useful for migration studies, whereas the latter would be serviceable for studies of housing mobility. If there is need for information on mobility for housing analyses, such a question might well form part of the Census of Housing.

(2) Curtailment of census program. The Committee is well aware that the foregoing suggested additional inquiries will entail a substantial increase in the costs associated with collection and processing of data. In its opinion such increases, viewed as marginal costs, are wholly justified. At the same time, it is evident that such justification is much more easily accomplished if offsetting cost reductions can be introduced at the same time.

The Committee's assumption is that the principal means of reducing the expense of collecting data is to employ sampling on a wider scale than in previous censuses. It is not, at present, in a position to evaluate all the implications of a more extended use of sampling. In particular, it feels that there is a need for much more conclusive evidence than has yet been forthcoming on the effect of sampling errors on the usefulness of small-area data (e.g., census tract tabulations). The Committee would like to have the opportunity to examine such evidence

before making a final judgment on the feasibility of shifting certain inquiries to a sample basis.

There is, of course, no need to defend the principle of sampling as a method of collecting data in the decennial census. The experience of the 1940 and 1950 censuses, in which the United States Bureau of the Census pioneered in the use of sample techniques, demonstrates adequately that sample information can be collected which is as useful for many scientific purposes as data based on complete enumeration. The issue that remains in doubt is how far the general principle of sampling can be extended without compromising some of the important uses of census data.

Consequently, in suggesting the possibility of greatly extending the scope of items collected on a sample basis, the Committee is expressing a judgment that the transfer to a sample basis for certain items would be preferable to the loss of information on other necessary items.

It is assumed that for legal, technical, and other reasons certain items — name, age, sex, race, household relationship, and marital status — must continue to be collected on a complete-count basis. Among the remaining items, it seems useful to distinguish two levels of priority. The first group of items to be transferred to a sample basis are those not pertaining to the labor force. The block of items to be transferred to a sample basis, only as a last resort, are the labor force items. It is assumed that all sample information will be collected for a sizable sample, 20 or 25 per cent of the population (although certain detailed tabulations may be carried out only for subsamples).

The decision to make one or both these shifts to a sample basis should be guided by the savings in costs of data collection afforded by sampling which may be allocated against increases in costs incurred by adding new items to the census schedule. As far as the interests represented by this Committee are concerned, there is little to be gained by shifting inquiries to a sample basis except in terms of acquiring other information which otherwise would not become available.

Among the incidental savings that might be achieved by revision of the census program are those afforded by the exclusion of such an item as "veteran status." To the knowledge of the Committee, this item on the 1950 Census has not been used for any significant research purpose. Moreover, the Committee is not aware of any evidence that the presumed administrative uses of this information have, in fact, justified themselves.

Another saving, in comparison with the 1950 program, can be introduced by omitting the nation-wide birth registration test. With the general improvement in registration systems the collection of this information no longer appears to justify the effort.

(3) Key problems of census procedure. Among procedures calculated to enhance the scientific value of census data, the Committee places highest priority on an expanded, more complete and effective Post-Enumeration Survey. Such a survey should be designed to produce, early in the census period, comprehensive estimates of the magnitude and direction of errors in the census data. Procedures to make realistic estimates of error are at least equal in importance to procedures designed to reduce error. Moreover, an expanded PES would provide a vehicle for certain supplementary inquiries which are too difficult or costly to place on the regular schedule, notably the collection of rosters

of live births by date of birth. This use of the PES would eliminate the need for subsampling within the framework of the regular census, and thus help to overcome some of the difficulties associated with the combination of a 20 per cent and a 3 1/3 per cent sample in the 1950 Census.

The Committee also places a high priority on other procedures designed to reduce, or to estimate the magnitude of, errors of enumeration. These include such devices as the check of persons 65 and over against OASI lists and the use of self-enumeration forms to collect more accurate information for unrelated individuals, as recommended by the work group on accuracy and reliability of data. The enumeration of individuals whose characteristics are not well known to the actual respondent appears to be one of the weakest aspects of former census procedures. The supplementary use of self-enumeration should, therefore, be tested as a means of improving accuracy of the data for this category. It could well be used to supplement and amplify information on those items believed to be subject to greatest error, if not on all items on the regular schedule.

The Committee endorses what it understands to be the present plan to delimit boundaries of urbanized areas for all central cities of 25,000 or more and to identify all settlements, incorporated or unincorporated, of 500 or more. These measures will unquestionably yield a more realistic picture of the settlement pattern and provide information of great use for purposes of market analysis, local administration and planning, and provision of housing and public utilities, as well as for research on community structure and population distribution. In this connection the Committee seconds the recommendation of the work group on geographic areas concerning revision of the basic residence classification. It feels that a question on farm residence, asked on a sample basis, could supplement this classification, providing information needed for administrative use and for historical continuity with the past censuses.

The Committee is not wholly certain of the merits of the proposed revisions of census geographic divisions and regions. The gains presumably offered by this change must be weighed carefully against the costs in terms of loss of comparability with historical data and the costs of revising such data where possible. It is clear that if the change is made it will be indispensable to assemble time series on the basis of the new divisions. Actually, the main issue in respect to regional classification arises not in connection with the main tabulations of the decennial census, but in connection with special tabulations carried out on a sample basis and especially in connection with data from the Current Population Survey. No doubt it will prove impossible to retabulate these sample statistics to conform with a new divisional and regional classification.

In considering the problem of areal tabulation units, the Committee concluded that there was need for a more thorough sampling of research experience with existing units and of felt needs of research workers in regard to such units. Accordingly, in May, 1957, the Committee sponsored a conference on state economic areas and standard metropolitan areas at the Bureau of the Census, which was attended by a number of research workers from universities and government agencies; several disciplines, such as geography and economics, were represented in addition to demography. A report on the conference has been made available to the Bureau. Perhaps the most striking summary observation to be made is the considerable variety of approaches to, and needs for, small-area data.

The conclusions which the Committee is prepared to offer at this time are as follows:

(a) The state economic area (SEA) program is a potentially valuable extension of the tabulation program in that it can provide relatively detailed tabulations and cross-tabulations that would be too complex or voluminous if carried out for counties, but which give materially greater area detail than states. This program should be carefully designed to maximize its utility for research purposes. While some detailed revisions of SEA boundaries should be made, emphasis should be placed on maintaining comparability with the prior SEA delimitation and on reconciling discrepancies between alternative delimitations in federally produced statistics. The Committee plans to make recommendations at a later date on SEA tabulations.

Because needs of research workers are so varied, the Bureau of the Census, while expanding the SEA program, should investigate methods of making readily available types of tabulations of county data that cannot be published.

(b) The Committee assumes that the standard metropolitan area (SMA) program will be carried out in 1960 substantially as in 1950. Before the 1960 Census, the SMA system should be carefully reviewed to make sure that an optimum set of criteria of metropolitan character and metropolitan integration has been observed consistently. In these criteria no basic change should be introduced which has the net effect of making the rules for recognizing metropolitan status less stringent.

3. Further Work by the Committee

The Committee does not regard its task as finished. Among the items it has yet to consider are a number of questions concerning concepts, definitions, tabulations, and other aspects of census procedure. As noted above, the Committee has resorted to the device of holding a special conference on one key item of tabulation procedure — that of area units. An analogous problem concerns the general form and details of the labor force items. The Committee foresees the possible need for careful consideration of these matters, in consultation with interested and competent persons, at a later date.

After a review of the work of the Committee, the Board of Directors of the Population Association of America has recommended that it continue its work for another year. Accordingly, the Committee stands ready to render whatever assistance it can to the officials of the Bureau of the Census and to the profession of demography.

4. Appendix

The following is a list of reports by work groups which have been transmitted to the Bureau of the Census.

1. Report of the Work Group on Accuracy and Reliability of Basic Demographic Data (Ansley J. Coale, Chairman, Harold F. Dorn, Robert J. Myers, Frank W. Notestein, Mortimer Spiegelman, Frederick F. Stephan).

2. Report of the Work Group on Census Areas and Residential Categories (Amos H. Hawley, Chairman, J. Allan Beegle, Otis Dudley Duncan, Leslie Kish, Albert J. Mayer, Leo F. Schnore).

3. Report of the Work Group on 1960 Migration Statistics (Dor-

othy S. Thomas and Robert G. Burnight, Co-chairmen, Sidney Goldstein, C. Horace Hamilton, Everett S. Lee).

4. Report of the Work Group on Fertility and Nuptiality Statistics (Clyde V. Kiser, Chairman, Paul H. Jacobson, Robert G. Potter, Jr., Christopher Tietze, P. K. Whelpton).

5. Report of the Work Group on Race and Color Classifications, Ethnicity, and Nativity (Daniel O. Price, Chairman, Calvin L. Beale, Guy B. Johnson, Lyle Saunders, Clarence Senior).

6. Report of the Work Group to Consider Proposals for Inquiries on Journey to Work (Gerald Breese, Chairman, Nathan Cherniack, William G. Grigsby, Howard Lapin, Harlan G. Loomer, Warren Lovejoy, Chester Rapkin, Arthur Row).

7. Report of the Work Group on Proposed Census Inquiries on Religion (Dudley Kirk, Chairman, Henry Cohen, Paul M. Densen, Father William J. Gibbons, Gerhard E. Lenski, Frank Lorimer, Edward B. Olds, Christopher Tietze).

8. Report of the Work Group on Socio-Economic Status Measurement (Peter H. Rossi, Chairman, Jacob J. Feldman, Joseph A. Kahl, Raymond W. Mack).

Otis Dudley Duncan

26 August 1957.

AGE REPORTING BASED ON "DATE OF BIRTH"

As may be seen from the foregoing Committee Report, it is proposed that a question on "date of birth" be added to the census schedule in 1960. In the 1900 Census, in addition to the question "age at last birthday," enumerators were instructed to ask "date of birth" in an attempt to reduce the amount of age misstatement. This is the only time the latter question has been included in a U. S. Census although all available evidence seems to indicate that it achieved its objective of reducing inaccuracy in age returns. Allyn Young, in a volume of special reports covering the 1900 Census, discussed the improvement resulting from the efficacy of the question on date of birth.

The front cover chart compares returns on age in 1900 to those of 1890 and 1910. The measure of age misstatement used in preparing this chart involved a comparison of the enumerated population with the expected population at each age. This expected population is in turn based on the average of the enumerated populations of the ten adjacent age groups — five on either side of the specified age. Necessary adjustments were made for over- and under-sized birth cohorts that were traceable through successive censuses, and for deviations from linearity resulting from mortality.

The cover chart presents a comparison of mean deviations from the expected population, by decennial age groups, for native white females for 1890, 1900, and 1910. For each age group the 1900 figures are below those of the other two censuses. The relatively greater amount of age misstatement at the older ages in contrast to ages 10-19 and 20-29 is also apparent. Similar results were obtained for native white males.

Melvin Zelnik

NATIONAL SCIENCE FOUNDATION RESEARCH GRANTS

The Division of Biological and Medical Sciences of the National Science Foundation announces that the next closing date for receipt of research proposals in the life sciences is January 15, 1958. Proposals received prior to that date will be reviewed at the winter meetings of the Foundation's advisory panels and disposition will be made approximately four months following the closing date. Proposals received after the January 15, 1958, closing date will be reviewed following the spring closing date of May 15, 1958. In addition to funds for the support of basic research in the life sciences, limited funds will be available during the current fiscal year for the support of research facilities and programs at biological field stations. Inquiries should be addressed to National Science Foundation, Washington 25, D. C.

THE 1958 ANNUAL MEETING of the Population Association will be held May 3 and 4 at the Shoreland Hotel in Chicago, Illinois.

BIBLIOGRAPHY

This bibliography is compiled principally from publications available to the editors or cited in the literature. Selection is on the basis of intrinsic merit, current interest, and paucity or richness of the literature for the various areas and problems. Coverage is less complete in peripheral fields, selection less rigid in underdeveloped areas. The major resources utilized in addition to those of the Office of Population Research are the current acquisitions of the Princeton University Library, the New York Public Library, the United Nations Headquarters Library, and the Library of the New York Academy of Medicine.

The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of official publications of national governments is facilitated by accession lists and occasional other aid from several government agencies.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. Regularly recurring compilations of official statistics that have been listed in the bibliographies of the United Nations Demographic Yearbook are not normally covered here. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol °.

A list of the sources used in the preparation of this bibliography appears with the cumulative index for Volume 22. The following abbreviations are used for the bibliographical sources quoted in the annotations of this issue:

A.A.A. - Annals of the American Academy of Political and Social Science.
A.J.P.H. - American Journal of Public Health and the Nation's Health.
A.S.R. - American Sociological Review.
B.A. - Biological Abstracts.
B.A.D. - Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine. (France. Fondation Nationale des Sciences Politiques.)
B.S.P. - Bulletin Signalétique. Philosophie. Sciences Humaines. (France. Ministère de l'Education Nationale.)
C.G.P. - Current Geographical Publications. (American Geographical Society.)
D.D.G. - Distribution Data Guide. (U. S. Department of Commerce.)
E.H.R. - Economic History Review.
E.Q. - Eugenics Quarterly.
E.R. - Eugenics Review.
F.B.D. - French Bibliographical Digest. (The Cultural Division of the French Embassy, New York.)
F.S. - Fertility and Sterility.
I.A.S.I. - Inter American Statistical Institute. Estadística.
I.S.S.B. - International Social Science Bulletin. (U.N.E.S.C.O.)
J.A.M.A. - Journal of the American Medical Association.
J.P.E. - Journal of Political Economy.
P.A. - Psychological Abstracts.
P.R.T. - Population: Revue Trimestrielle.
S.A. - Sociological Abstracts.
T.A. - Tropical Abstracts. (Netherlands Royal Tropical Institute.)

The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

A. GENERAL POPULATION STUDIES AND THEORY

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Géographie de la population, Tome 1. Géographie économique et sociale, Tome 5. Paris, Librairie des Médicis, 1956. 435 pp. and 4 folding maps.

Summary and evaluation of available statistics on national populations worldwide. Analysis of principal geographical types of settlement, particularly in Europe, with discussion of problems of regional planning. [P.R.T. 12(2)]

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Population theories and the economic interpretation. International Library of Sociology. London, Routledge and Kegan Paul, 1957. 225 pp.

"The first part of the book contains a critique of population theories since Malthus....The second part provides a theoretical framework for the economic analysis of fertility trends and patterns a demand-for-labour analysis which throws light on the population upsurge at the time of the industrial revolution; the recent fertility decline among the poorer classes; interoccupational differential fertility; and the recent population upsurge." [Publisher's announcement]

4003 Dice, Lee R.
Ecology and overpopulation. Scientific Monthly 84(4):165-170. April, 1957.

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Man's nature and Nature's man: the ecology of human communities. Ann Arbor, University of Michigan Press, 1955. 329 pp.

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Malthusians and Marxists. The Economist 183(5936):764-766. June 1, 1957.

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The potential contribution of longitudinal twin studies: an appraisal. Eugenics Quarterly 4(2):81-91. June, 1957.

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4007 Lee, Everett S., et al.
Population redistribution and economic growth, United States, 1870-1950. I. Methodological considerations and reference tables. Prepared under the direction of Simon Kuznets and Dorothy Swaine Thomas. American Philosophical Society Memoirs, Vol. 45. Philadelphia, 1957. xii, 760 pp., processed.

The first of two volumes prepared by the University of Pennsylvania Studies of Population Redistribution and Economic Growth. "The present study is based on four main types of estimates, collated or derived in whole or in part from various United States censuses; and each series covers as much as possible of the 80 year span from 1870 to 1950.... The four segments of the study [population redistribution, redistribution of labor force, redistribution of manufacturing activity, redistribution of income], covered by these estimates, attempt to provide the links which... are desirable for analysis of interrelations among measures of population redistribution and economic growth." 52 text tables; 28 reference tables.

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Shamsi, N. Population problems of Pakistan. [Summary of problems of pressure on resources.]

Akhtar, S. M. Demographic aspects of economic development. [Discusses approaches to the problem and type of data needed.]

Haq, Inam-Ul. Population growth in Pakistan and future estimates. [Discusses data and methods for three approaches: statistical, mathematical, historical; developes the second to obtain estimates for East and West Pakistan for each year, 1951-1961.]

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The limits of mankind: a philosophy of population. Bristol, John Wright, 1956. vi, 153 pp.

A popular discussion of the possible consequences of very large increases in world population. Effects on travel, transport and trade, government and organization, planetary colonization are considered. [E. R. 49(2)]

4018 Ponsard, Claude.

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4019 Rashin, Adolf G.
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Summary of recent population changes in metropolitan France and the oversea departments, of trends in policy and public attitudes, employment, housing, alcoholism, and of problems of underdeveloped countries.

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4026 Spengler, Joseph J.

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The text of the Presidential Address at the 1957 annual meeting of the Population Association of America, summarized in Population Index 23(3):200-201. July, 1957.

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Textual analysis of Malthus's essay, its sources and influence. Sifting of evidence on the then contemporary trends in population growth and in output of the means of subsistence. Critical evaluation of the theory in its original setting and in its relevance to modern conditions, particularly in China, Japan, and India. Bibliography. [P.R.T. 12(2)]

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General summary of the Marxist analysis and refutation of the Malthusian position, with application to Chinese conditions, stressing the value of a large population.

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The sanctity of life and the criminal law. New York, Alfred A. Knopf, 1957. xiv, 350, xii pp.

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[See also Titles 4053, 4064, 4067, 4213, 4270, 4306, 4329, 4346, 4366, 4377, 4410, 4415, 4416, 4443]

B. REGIONAL POPULATION STUDIES

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[Economic and social history at the Society for Modern History.] L'histoire économique et sociale à la Société d'Histoire Moderne. Revue d'Histoire Economique et Sociale (Paris) 34(4):457-467. 1956.

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4039 Daumard, Adeline.
[A source of social history: the registration of property transfers by death. The 12th arrondissement of Paris in 1820 and 1847.] Une source d'histoire sociale: l'enregistrement des mutations par décès. Le XIIe arrondissement de Paris en 1820 et 1847. Revue d'Histoire Economique et Sociale (Paris) 35(1):52-78. 1957.

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[See also Titles 4007, 4008, 4019, 4021, 4022, 4028, 4098, 4158, 4222, 4264, 4339, 4363, 4455]

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Idem. Written statement. Submitted.... Newcastle upon Tyne, 1956. 12 pp. [Contains projected populations of urban and rural districts for 1971.]

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C. SPATIAL DISTRIBUTION

General Spatial Distribution

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4096 Hilton, T. E.
The distribution and density of population in the Gold Coast Colony and Southern Togoland. Pp. 472-481 in: International Geographical Congress, 17th, Washington, D. C., 1952. Proceedings. [1957.]°

4097 Korčák, Jaromír.
[A profile of population density.] Geograficky Casopis (Bratislava) 8(4):244-248. 1956. In Slovak.°

4098 Meyer, Alfred H.
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4100 Smeds, Helmer.
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Basic documents, principles, and methods of work chosen for the production of such a map. [B.A.D. 12(1)]

4102 Steel, Robert W.
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4103 Trewartha, Glenn T.
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4104 Winkle, F. F., and Merwe, M. F. van der.
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[See also Titles 4001, 4008, 4014, 4018, 4038, 4043, 4046, 4049, 4067, 4069, 4072, 4081, 4083, 4089, 4107, 4118, 4124, 4270, 4274, 4276, 4307, 4353, 4370, 4415, 4441]

Urban Patterns

4105 Anderson, Esther S.
Urban population variability and related problems in the United States, 1930-1950. Pp. 714-719 in: International Geographical Congress, 17th, Washington, D. C., 1952. Proceedings. [1957.]°

4106 Arnhold, Helmut.
[The delimitation of the urban area.] Die Abgrenzung der Stadtlandschaft. Wissenschaftliche Veröffentlichungen des Deutschen Instituts für Länderkunde (Leipzig), No. 12, 1953. Pp. 71-130.
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4108 Council of State Governments.
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4109 Denis, J.
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4110 Earle, Frances M.
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4111 Fischer, L.
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4112 Fordham, Jefferson B., et al.
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Partial contents:
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4113 Gananathan, Viakalathur S.
Distribution of urban settlements in India. Pp. 742-745 in: International Geographical Congress, 17th, Washington, D. C., 1952. Proceedings. [1957.]°

4114 Gordejuela Sanz, Laura.
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4115 Jans, Ralph T.
The urban fringe problem: solutions under Michigan law. University of Michigan, Institute of Public Administration, Bureau of Government, Michigan Pamphlets, No. 26. Ann Arbor, 1957. 58 pp.
Chapters: The Charter township; Incorporation of cities; Village incorporation; Annexation; Metropolitan districts; Intergovernmental co-operation; Summary. Chapter on metropolitan districts discusses the Metropolitan District Act, experience under it, and possible advantages and disadvantages of metropolitan districts.

4116 Nellner, Werner.
[Commuting in the Federal Republic of Germany, its statistical coverage and cartographic presentation.] Die Pendelwanderung in der Bundesrepublik Deutschland, ihre statistische Erfassung und kartographische Darstellung. Berichte zur Deutschen Landeskunde (Stuttgart) 17(2):229-253. Dec., 1956.°

4117 Pickard, Jerome P.
The greater Washington metropolitan market — 1957. [14 pp. and 5 addenda.] Published as part of: Washington Board of Trade, Business Outlook Conference, 1957. Prepared by the National Savings and Trust Company. Washington, D. C., 1957. [iii, 132 pp.; maps.]
Addenda include tables and maps showing distributions of population, family income, new construction, and shopping centers.

4118 Regional Plan Association, Inc. [New York].
People, jobs and land 1955-1975 in the New Jersey-New York-Connecticut metropolitan region. Regional Plan Bulletin, No. 87. New York, June, 1957. 70 pp. and folding map.
Presents tables, charts, maps, and text under the following heads: The metropolitan region as a whole [total population and components of change; labor force; total employment]; Distribution of population, employment and land development in the region; County summaries and forecasts.

4119 Schöller, Peter.
[Commuting as a geographical problem.] Die Pendelwanderung als geographisches Problem. Berichte zur Deutschen Landeskunde (Stuttgart) 17(2):254-265. 1956.°

4120 Southall, Aidan W., and Gutkind, Peter C. W.
Townsmen in the making: Kampala and its suburbs. East African Studies, No. 9. Kampala, East African Institute for Social Research, 1956. xiv, 272 pp. and 3 folding maps.°

[See also Titles 4014, 4025, 4045, 4048, 4050, 4054, 4058, 4062, 4069, 4098, 4125, 4133, 4136, 4221, 4226, 4266, 4275, 4353, 4354, 4366, 4367, 4447, 4456, 4494]

Rural Patterns

4121 Anantapadmanabhan, N.
Density of rural population in relation to land use in Tamil Nad. Bombay Geographical Magazine 4(1):41-49. Dec., 1956.°

4122 Chambon, R., and Leruth, A.
[Peasants and settlers in the Tanganyika district.] Paysannat et colonat dans le District du Tanganyika. Bulletin Agricole du Congo Belge (Landbouwkundig Tijdschrift voor Belgisch-Congo) (Brussels) 48(2): 279-316. April, 1957.
Outline of present conditions of density, land use, and productivity, and of improvement plans undertaken or contemplated by the colony.

4123 Cleland, Courtney B.
Changes in rural population on the plains.

North Dakota Institute for Regional Studies, Social Science Report, No. 3. Fargo, North Dakota Agricultural College, 1957. [ii], 13 pp., processed.

Discusses results of past studies and present research needs (conceptual difficulties, formulation of hypotheses on family farm pattern, age-sex selectivity, relocated social activity, institutional adaptation, patterns of settlement, farming from town, attitudes toward depopulation, levels of living).

4124 Hart, John F.

The rural nonfarm population of Indiana. Proceedings of the Indiana Academy of Science, Vol. 65, 1955. Indianapolis, 1956. Pp. 174-179.

Summary analysis with maps and diagrams, of distribution patterns of village population and of unagglomerated rural nonfarm population recorded in the 1950 census, and their relation to urban centers. Suggestions as to terminology and further research.

[See also Titles 4021, 4023-4025, 4071, 4393]

D. TRENDS IN POPULATION SIZE

Past Trends

4125 Bogue, Donald J., and Seim, Emerson.

Components of population change in suburban and central city populations of standard metropolitan areas: 1940 to 1950. Rural Sociology 21(3-4):267-275. Sept.-Dec., 1956.

Presentation of summary data from a statistical analysis of the components of change in the 149 SMA's of the United States, distinguishing central cities and suburban rings. More detailed data on the changes due to ten principal components in the 25 largest SMA's and further details on the relation of these components to demographic characteristics in the Chicago SMA. Statement of problems, methodological notes, and textual summary of results.

4126 Cillov, Halûk.

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4133 Brazil. Instituto Brasileiro de Geografia e Estatística.
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No. 158. Idem: January 1, 1950, to May 1, 1957. June 12, 1957. 1 p.
No. 159. Idem: January 1, 1950, to June 1, 1957. July 15, 1957. 1 p.

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[Estimated forecasts of the population of the municípios of the capital (supplementary calculations).] Estimativas de previsão da população dos municípios das capitais (cálculos suplementaires). Calculated by Orêncio Longino de Arruda Gomes. Boletim Estatístico 14(56):1. Oct.-Dec., 1956.

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E. MORTALITY

General Mortality

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of the registration of deaths of centenarians. Tabular and critical summary of data on age at death of centenarians, 1751-1956.

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[Abbreviated life tables for the Republic, 1950.] Tablas abreviadas de mortalidad para la República 1950. Boletín de la Dirección General de Estadística (Guatemala City), No. 54, March-April, 1955. 26 pp.
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[A procedure for the construction of "projected" life tables.] Un procédé d'établissement de tables de mortalité projetées. Bulletin de l'Association Royale des Actuaires Belges (Gembloux), No. 58, 1956.°

[See also Titles 4067, 4143, 4181, 4470]

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Doyle, Joseph T., et al. A prospective study of degenerative cardiovascular disease in Albany: report of three years' experience — 1. Ischemic heart disease.
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Drake, Robert M., et al. An epidemiological investigation of coronary heart disease in the California Health Survey Population.

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The mortality in Australia from diseases of the alimentary system. Medical Journal of Australia (Sydney) 43, 1(19):787-789. May 12, 1956.
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Childbirth, complications and mortality of obstetrical patients in British Columbia (Health Statistics Research Survey). Victoria, B. C., 1955. x, 118, 1 pp.
Summary report on the first stage of the Health Statistics Research Project initiated by the public health authorities of Canada and British Columbia in 1953. The report summarized contains over 700 pages of tables, based on the maternity records of the province for 44 weeks of 1953. [J.R.S.S.A. 120(1)]

4178 Müller-Schmid, P.
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4185 Smith, Robert L.
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[See also Titles 4040, 4044, 4064, 4148, 4159, 4424, 4449, 4450, 4462]

F. FERTILITY AND NATURAL INCREASE

General Fertility

4187 Biraben, J. N.
[Biometric data concerning conception and pregnancy.] Données biométriques concernant la conception et la grossesse. Concours Médical (Paris) 78(49):5245-5248, passim. Dec. 8, 1956.°

4188 Conseil Economique Wallon.
[New details on Walloon demography.] Nouvelles précisions sur la démographie wallonne. Revue du Conseil Economique Wallon (Liége), No. 23, Nov.-Dec., 1956. Pp. 35-54.
Applies and criticizes two methods of measuring fertility trends (Kuczynski's net reproduction rate and the marriage cohort method). Presents data on changes in age structure between 1900 and 1947 for Flanders and Wallonia.

4189 Magnin, P.
[Frequency of births according to seasons, days, and hours.] La fréquence des accouchements suivant les saisons, les jours et les heures. Lyon Médical 88(50): 515-527. Dec. 9, 1956.°

4190 Persson, Rune.
[Social and psychological factors affecting fertility.] Sociala och psykologiska faktorers inverkan på nativiteten. Statsvetenskaplig Tidskrift för Politik, Statistik, Ekonomi (Lund) 59(5):375-381. 1956.
A discussion of the methods and findings of the Indianapolis study.

4191 Sinha, S. M.
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4192 Vogt, Johan.
[A study of generation fertility in Norway.] En undersøkelse over generasjonenes fruktbarhet i Norge. Statsøkonomisk Tidsskrift (Oslo) 70(3):181-204. Sept., 1956.
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4193 Yugoslavia. Slovenia. Zavod za Statistiko.
[Tables showing the fertility of women in the People's Republic of Slovenia, 1948-1952.] Tablice rodnosti zena v LR Sloveniji, 1948-1952. Ljubljana, 1956. 11 pp.°

[See also Titles 4013, 4077, 4127, 4177, 4197, 4203, 4285, 4286, 4354, 4375, 4414, 4492]

Differential Fertility

4194 Henripin, Jacques.
[Observations on the demographic situation of the French Canadians.] Observations sur la situation démographique des Canadiens français. Actualité Economique (Montreal) 32(4):559-580. Jan.-March, 1957.
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rates, legitimate fertility by age of mother), with historical comparisons. Applies mortality-rate and other tests of optimum size to present population. Discusses future prospects of French- and English-speaking growth differentials based on a comparison of fertility trends in Quebec and Ontario provinces, 1851-1951.

[See also Titles 4002, 4012, 4025, 4029, 4078, 4492]

Sterility and Other Pathology

4195 Buxton, C. Lee.
Human infertility. American Journal of Medical Science 231:694-700. June, 1956.
Review of research and practical accomplishments in the past 30 years. [F.S. 8(3)]

[See also Titles 4148, 4177]

Fertility Controls

4196 All India Conference on Family Planning, Third.
[Texts of four papers presented at the meetings, Calcutta, January 5-11, 1957.] Journal of Family Welfare (Bombay) 3(1-2): 1-25. Jan.-Feb., 1957.
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Mace, David R. Marriage guidance services.
Vasanthini, R. Acceptance of family planning in a rural setting.
John, Mary P. Family planning from the obstetrician's point of view.

4197 Berle, Beatrice B.
Sterilization and birth-control practices in a selected sample of Puerto Ricans living in a Manhattan slum. Fertility and Sterility 8(3):267-281. May-June, 1957.
Summary of the history of birth control and sterilization in Puerto Rico and of the findings of a 2-year sample survey of 80 Puerto Rican families in the upper east side of Manhattan, covering data on the fertility of the 86 women exposed to pregnancy, and attitudes and practice with regard to fertility controls. Policy conclusions.

4198 Döring, K.
[Induced abortion and birth control.] Schwangerschaftsunterbrechung und Geburtenregelung. Deutsche Medizinische Wochenschrift (Stuttgart) 82(3):117-119. Jan. 18, 1957.°

4199 International Planned Parenthood Federation.
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Partial contents:
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Parkes, A.S. Family planning; one hundred and twenty-two research [studies] into biological methods of controlling fertility.
Sanyal, S. N. Pisum sativum (Linn.); m-xylohydroquinone as an oral contraceptive; a critical evaluation.
Sanyal, S. N., and Ghosh, S. Further clinical results with m-xylohydroquinone as an oral contraceptive.
Sanyal, S. N., et al. Pisum sativum (Linn.); toxicity test of m-xylohydroquinone when used as an oral contraceptive.
Sanyal, S. N. Pisum sativum (Linn.); the effect of m-xylohydroquinone on functional bleeding (human trial).
Shelesnyak, M. C. Studies on the mechanism of the implantation of the fertilized ovum: a fertility control target.
Farris, E. J. The period of human ovulation and a consideration of the fertile and infertile periods.
Chang, M. C. Mammalian fertilization and the possibilities of its control.

4200 Komai, Taku.
Heredity counseling in Japan. Eugenics Quarterly 4(2):99-103. June, 1957.
Discusses recent trends in family planning, the traditional marriage system and its bearing on heredity counseling, and examples of heredity counseling.

4201 Schneider, David M.
Abortion and depopulation on a Pacific island. Pp. 211-235 in: Paul, Benjamin D., Editor. Health, culture, and community: case studies of public reactions to health programs. New York, Russell Sage Foundation, 1955. viii, 493 pp.
An anthropologist's report of observations during nine months spent on Yap in 1947-48 as a member of the Harvard University and National Research Council research team. Describes the prevalence of, and suggests reasons for, the practice of self-induced abortion, with notes on the extent of depopulation and discussion of problems of policy and implementation.

4202 Stycos, J. Mayone.
Birth control clinics in crowded Puerto

Rico. Pp. 189-210 in: Paul, Genjamin D., Editor. Health, culture, and community: case studies of public reactions to health programs. New York, Russell Sage Foundation, 1955. viii, 493 pp.

Describes difficulties encountered by a program of birth control in Puerto Rico, analyzes the social and psychological sources of these difficulties, and presents implications both for the particular situation and on a broader level.

[See also Titles 4010, 4072, 4190, 4219, 4226, 4364, 4380, 4381, 4383, 4385]

Natural Increase

See Title 4131.

G. MARRIAGE, DIVORCE, & THE FAMILY

Marriage and Divorce

4203 Chambliss, Rollin.
Contributions of the vital statistics of Finland to the study of factors that induce marriage. American Sociological Review 22(1):38-48. Feb., 1957.

Summary, with graphics, of an anlaysis of official statistics of Finland on age at first marriage, seasonal fluctuations in nuptiality, premarital pregnancy, seasonal patterns of conceptions resulting in legitimate and illegitimate births. Data of retrospective series from 1861 or later to 1950. Data of 1939-1953 in more detail.

4204 Hocevar, F.
[Divorce.] Socijalna Politika (Belgrade) 5(11/12):58-66. Nov.-Dec., 1955. In Serbo-Croatian.°

4205 Massé, L.
[A contribution to the study of the town of Thiès.(II). Continuation of the numerical analysis of the marital situation. (From a socio-demographic sample.)] Contribution à l'étude de la ville de Thiès (II). Suite du dépouillement numérique sur la situation matrimoniale. (Extrait d'un sondage socio-démographique). Bulletin de l'Institut Français d'Afrique Noire (Dakar), Série B, Sciences Humaines 19(1-2):275-283. Jan.-April, 1957.

See 22:Title 4238 for first part.

4206 S[chlesinger], R[udolf].
Proposed changes in family law. Soviet Studies 8(4):453-457. April, 1957.

Summary of reports in U.S.S.R. publications of current discussion of proposed changes in divorce and legitimacy laws.

4207 Scherer, Alice, and Scherer, Robert, Editors.
[Marriage and the family; principles; status and policies. Part 1.] Ehe und Familie; Grundsätze; Bestand und fördernde Massnahmen. Teil 1. Freiburg im Breisgau, Herderverlag, 1956. 295 pp.°

4208 Seidenwurm, J., and Triller, J.
[At what age and in which month do they get married?] In welchem Alter und in welchem Monat wird geheiratet? Statistische Praxis (Berlin) 12(3):45-46. March, 1957.

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4209 Stirling, P.
Land, marriage, and the law in Turkish villages. International Social Science Bulletin (Paris) 9(1):21-33. 1957.

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4210 Timur, H.
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4211 Woolf, C. M., et al.
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Report of an investigation of 198 marriages of Mormons between persons with a common surname. [E.Q. 4(2)]

[See also Titles 4200, 4213, 4215, 4219, 4354, 4356, 4373, 4414, 4415]

The Family

4212 Byrd, Oliver E., Compiler.
Family life sourcebook. Stanford, Calif., Stanford University Press, 1956. 371 pp.

"A collection of 400 articles published in 142 different periodicals during 1945-55 has been compiled, condensed, and ar-

ranged into 13 chapters, tracing the development of the family and its members from birth to old age." [P.A. 30(6)]

4213 Family Research Conference.
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Partial contents:
Kephart, William M. Some knowns and unknowns in family research: a sociological critique.
Ehrmann, Winston. Some knowns and unknowns in research into human sex behavior.
Hill, Mozell C. Research on the Negro family.
Senior, Clarence. Research on the Puerto Rican family in the United States.
Hill, Reuben, et al. An inventory of research in marriage and family behavior: a statement of objectives and progress.
Foote, Nelson N. The appraisal of family research.
Landis, Judson T. Values and limitations of family research using student subjects.
Leslie, Gerald R. Implications and recurrent themes.

4214 Fernández-Méndez, Eugenio.
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Chinese family and marriage in Singapore. Colonial Office, Colonial Research Studies, No. 20. London, H. M. Stationery Office, 1957. 250 pp. and frontispiece.
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4216 Malley, F., Editor.
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Girard, Alain. Situation de la famille française contemporaine. [Discusses recent historical development, characteristics, family size, living levels, types of family, functions, current problems.]
Burtin, Jean. [Peasant families and agricultural production.] Familles paysannes et exploitations agricoles.
Houist, Guy. [The home and the spreading out of families.] Habitat et épanouissement familial.
Viau, Pierre. [Families in the city.] Les familles dans la cité.

4217 Morimoto, Takeya.
[Family relationship of the present age.] Gendai no kazoku kankei. Tokyo, Daimeidō, 1957. 231 pp.°

4218 Sahlins, Marshall D.
Land use and the extended family in Moala, Fiji. American Anthropologist 59(3): 449-462. June, 1957.
Analysis based on field materials collected by the author in 1954-55 in two villages, Naroi and Keteira, on Moala Island, in one of which the extended family system continues and in the other of which the nuclear family has emerged. Contains numerical data on numbers, family size, and interrelationships.

4219 Sakanishi, Shio.
Women's position and the family system. Annals of the American Academy of Political and Social Science, No. 308, Nov., 1956. Pp. 130-139.
A brief review of postwar reforms and counter tendencies in Japan, including attitudes toward, and regulation of, marriage and divorce, women's employment, family planning.

4220 Seminaire International de Recherche sur la Famille.
Studies of the family. Recherches sur la famille. Untersuchungen über die Familie. Vol. I. UNESCO-Institut für Sozialwissenschaften, Cologne, Schriftenreihe, Band 3. Tübingen, J. C. B. Mohr, 1956. XII, 288 pp. Text partly French, partly English, partly German, with summaries in the other two languages.
Collection of papers on the theme, The family in the changing social order, held at the UNESCO Institute for Social Sciences, June 1954, at Cologne. Papers survey current research in Western Europe, the

United States, and Iraq. Summary chapter by Ernest W. Burgess.

[See also Titles 4089, 4091, 4094, 4207, 4297, 4353, 4354, 4364, 4365, 4415]

H. INTERNATIONAL MIGRATION

General

4221 Ayache, Albert.
[Morocco. Colonization balance sheet.] Le Maroc. Bilan d'une colonisation. Paris, Les Editions Sociales, 1956. 368 pp.
Chapters consider problems of the European population (movements; ethnic, occupational, and social composition); of urban concentration; of the Moroccan population (growth rates, age structure, etc.); and of the town dwellers and their sociological evolution. [P.R.T. 12(1)]

4222 Balhana, Altiva P.
[Italian immigration to Paraná.] L'immigration italienne au Paraná. R.E.M.P. Bulletin (The Hague) 5(2):62-68. April-June, 1957.
Description of the main factors in the movement of Italians to the Paraná province of Brazil, the international agreements governing it, and the history of the migration and settlement since 1871.

4223 Bohmann, Alfred.
[The depopulation of the Sudeten states as a result of the expulsion of the Sudeten Germans.] Die Entvölkerung der Sudetenländer als Folge der Ausweisung der sudetendeutschen Volksgruppe. Edited by the Arbeitsgemeinschaft "Aussiger Schrifttum." [Troisdorf], Kammwegverlag, 1951. 36 pp.°

4224 Brazil. Instituto Brasileiro de Geografia e Estatística.
[Territorial distribution of aliens and naturalized Brazilians in Brazil in 1950.] Distribuição territorial dos estrangeiros e brasileiros naturalizados no Brasil em 1950. Boletim Estatístico 14(56):8-13. Oct.-Dec., 1956.
Comparison with data for 1920 and 1940, covering sex distribution, principal groups by country of origin, immigrants of the period 1950-55.

4225 Catholic University of America. The Institute of Ibero-American Studies.
The migration of peoples to Latin America. Proceedings of the Conference on the Migration of Peoples to Latin America held under the auspices of the.... April 27 and 28, 1956. Edited by Margaret Bates. Washington, Catholic University of America Press, 1957. x, 113 pp., processed.
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Tietze, Christopher. The role of immigration in Latin America's population pattern.
Moraes, Octavio A. de. Immigration into Brazil, a statistical statement and related aspects.
Swanstrom, Edward E. The role of the Church in the migration of peoples to Latin America.
Lobo, Fernando. The role of government in the migration of peoples to Latin America.

4226 Etudes Sociales Nord-Africaines.
[Action and social techniques in the service of North-African families in France.] Action et techniques sociales au service des familles nord-africaines en France. Cahiers Nord-Africains (Paris), No. 51, March-April, 1956. 66 pp.
Plus inserted annexes:
I. [An attempt to estimate the numbers and location of North African families in the Paris region.] Essai d'appréciation numérique et de localisation des familles nord-africaines dans la region parisienne. Folding leaf.
II. [Muslims poll themselves on birth control.] Des musulmans s'interrogent sur la limitation des naissances. 12 pp. [Report of an opinion poll by the Cairo daily, Al-Goumhuriyya, of its readers on the subject of a proposed campaign by the Egyptian government in favor of birth control. P.R.T. 12(1)]
III. [Extracts from a fetwa issued by the Commission des Fetwas de Al Azhar on the rights and duties of women.] Extraits d'une fetwa promulguée par la commission des fetwas de Al Azhar sur les droits et devoirs de la femme. 4 pp.

4227 France. Institut National de la Statistique et des Etudes Economiques.
[Aliens in France at the 1954 census (results of the 1/20 sample survey).] Les étrangers en France au recensement de 1954 (résultats du sondage au 1/20). Etudes Statistiques, Supplément Trimestriel du Bulletin Mensuel de Statistique, No. 1 of 1957, Jan.-March, 1957. Pp. 3-8.
Presents tabular data on all aliens by sex, nationality, marital status, and occu-

pation (with details of particular trades). Also tables and maps of data on geographical distribution by departments of all aliens and of principal nationalities.

4228 France. Institut National d'Etudes Démographiques.
L'immigration en France en 1956. By N. P. Population (Paris) 12(1):144-147. Jan.-March, 1957.
Summary of official statistics, particularly on Hungarian immigration, industrial distribution of immigrants, and seasonal immigration.

4229 Gernes, Arthur C.
[Implications of the Puerto Rican emigration to the continent outside the city of New York.] Implicaciones de la emigración puertorriqueña al Continente fuera de la ciudad de Nueva York. La Torre (Río Piedras) 4(13):97-111. Jan.-March, 1956.°

4230 Grenier, R.
[The non-indigenous population of the French overseas territories. The expansion of metropolitan France in black Africa.] La population non originaire des territoires d'outre-mer français. L'expansion métropolitaine en Afrique noire. Etudes et Conjoncture (Paris) 12(3):334-340. March, 1957.
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4231 Ingram, James C.
Economic change in Thailand since 1850. Issued under the auspices of the International Secretariat, Institute of Pacific Relations. Stanford, Calif., Stanford University Press, 1955. 254 pp.
Includes a historical account of Chinese immigration and present minority status. [J.P.E. 65(3)]

4232 Jay, L. J.
Pioneer settlement on the Darling Downs; a Scottish contribution to Australian colonisation. The Scottish Geographical Magazine 73(1):35-49. April, 1957.°

4233 Lövgren, Esse.
The geographical mobility of labor; a study of migrations. Geografisker Annaler (Stockholm) 38(4):344-394. 1956.°

4234 Meinhold, Helmut.
[International migration of workers seen from the standpoint of closer economic cooperation in Europe.] Internationale Arbeiterwanderung gesehen unter dem Blickpunkt der engeren wirtschaftlichen Zusammenarbeit in Europa. Finanzarchiv (Tübingen) 17(3):384-395. 1957.
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4235 Metropolitan Life Insurance Company.
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4236 Michel, Andrée.
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4237 Michel, Andrée.
[Algerian workers in France.] Les travailleurs algériens en France. Travaux du Centre d'Etudes Sociologiques. [Paris], Centre National de la Recherche Scientifique, 1956. 238 pp.°

4238 Nelson, Helge.
The immigrants into the USA and their children. Invandrarna i USA och deras barn. Statistisk Tidskrift (Stockholm) 6(3): 126-134. March, 1957. With English summary, pp. 182-183.
Summary of and comment on the study by Hutchinson cited in 23:Title 1301.

4239 Political and Economic Planning [PEP].
Britain and Commonwealth migration. Planning 23(409):70-83. April 15, 1957.
Discusses the balance of movement, postwar Commonwealth policies, British migration policy, and the needs of the Commonwealth.

4240 Reverdito, Roberto.
[Inter-European migration and the position of Italy.] L'emigrazione intereuropea e la posizione dell'Italia. Rivista Internazionale di Scienze Sociali 28(2):177-179. March-April, 1957.
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4241 Singh, Chanan.
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Indian Economic Journal (Bombay) 4(3): 295-299. Jan., 1957.

Comment on article by Rao in the July issue of the Journal. See 23:Title 2269.

4242 Smolski, T.

[Muslim workers from Algeria in metropolitan France.] Les travailleurs musulmans d'Algérie dans la métropole. Etudes et Conjoncture (Paris) 12(3):324-333. March, 1957.

Discussion covers bases for numerical estimates and tentative figures, data on the areas of origin of the migrants, on the rhythm of movements coming from and returning to Algeria, 1946-1956, and on the migration of families.

4243 Società Umanitoria.

[Italian emigration to Switzerland.] L'emigrazione italiana in Svizzera. Bollettino Quindicinale dell'Emigrazione (Milan) 10:261-267. Sept. 25, 1956.°

4244 Sveton, J.

[Slovak emigration in the period of Hungarian capitalism.] Ekonomicky Casopis (Bratislava) 4(2):171-191. 1956. In Slovak.°

[Migrations of the Slovak population in the pre-Munich Czechoslovak Republic.] Ibid. 4(4):347-363. 1956. In Slovak.°

[See also Titles 4037, 4040, 4055-4057, 4061, 4072, 4089, 4245, 4263, 4270, 4272, 4342, 4350, 4360, 4369, 4397, 4416, 4487]

Settlement and Resettlement

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[The balance sheet of the trusteeship of Somaliland.] Le bilan de la tutelle sur la Somalie. Afrique Française: Bulletin du Comité de l'Afrique Française et du Comité du Maroc (Paris), Nov.-Dec., 1956. Pp. 175-179.

Geographical data; results of the Italian colonization; political progress and economic and financial prospects. [B.A.D. 11(10)]

4246 Yacono, Xavier.

[The colonization of the Chélif plains (from Lavigerie to the confluence of the Mina).] La colonisation des plaines du Chélif (de Lavigerie au confluent de la Mina). Algiers, Imbert, 1955. In 2 vols. 445 pp.; 424 pp. and map.

History of the colonization since the conquest, the present economic development, and the bearing of the ethnic and social class divisions and their differential growth on problems of future development. [P.R.T. 12(2)]

[See also Titles 4008, 4222, 4252, 4280, 4400]

Temporary Movements

4247 Belova, N. K.

[Concerning seasonal workers coming from northwestern Iran at the end of the 19th and the beginning of the 20th centuries.] Voprosy Istorii (Moscow) 10:112-121. Oct., 1956. In Russian.°

[See also Titles 4228, 4233, 4234, 4242, 4243, 4272]

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4248 Economist [London].

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Discussion of problems of resettlement.

4249 Grote, Karl H.

[The resettlement of expellees; a political task and its solution.] Die Umsiedlung der Heimatvertriebenen; eine staatspolitische Aufgabe und ihre Lösung. Bundesarbeitsblatt (Bonn), No. 21 of 1956. Pp. 715-720.°

4250 Hambro, Edvard.

Chinese refugees in Hong Kong. Phylon 18(1):69-81. 1957.

Condensed from the author's The problem of the Chinese refugees in Hong Kong (Leyden, 1955), originally presented as a report to the High Commissioner for Refugees, United Nations, 1954. See 22:Title 2296.

4251 Israel Economist.

The Arab refugees. Israel Economist (Jerusalem) 13(5):67-69. May, 1957.

Discussion of UNRWA data for 1956 and of progress made toward solving the problem of permanent settlement. See Title 4260, this issue.

4252 Koehl, Robert L.

The Deutsche Volksliste in Poland 1939-1945. Journal of Central European Affairs 15:354-366. Jan., 1956.

"Regulations and procedures of the resettlement of the Germans driven out before the occupation of Poland." [P.A.I.S. 42(21)]

4253 Mellor, Roy E. H.
The German refugee problem: ten years retrospect. The Scottish Geographical Magazine 73(1):1-18. April, 1957.

4254 Raptschinsky, B.
[The Arab refugees.] De arabische vluchtelingen. Tijdschrift voor Economische en Sociale Geographie (Rotterdam) 48(6): 133-141. June, 1957. With English summary.
A historical account, with estimates of numbers and rate of increase.

4255 Schwarz, Leo W.
Refugees in Germany today. New York, Twayne Publishers, 1957. 172 pp.°

4256 Smutny, Jaromir.
[The Germans in Czechoslovakia and their transfer from the Republic. I. Before the transfer. II. The transfer. III. After the transfer.] Nemci v Československu a jich odsun z republiky. I. Pred odsunem. II. Odsun. III. Po odsunu. Ustav Dr. Edvarda Benese pro Politicke a Socialni Studium, Doklady a Rospravy, Sv. 26. London, [1956]. 129 pp.°

4257 Stoessinger, John G.
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Historical survey of the activities of the International Refugee Organization and its forerunners and successors. Discusses the basic causes of displacement and proposes the reestablishment of a single unified international refugee organization. [A.S.R. 22(4)]

4258 United Nations. High Commissioner for Refugees.
Report of the United Nations High Commissioner for Refugees. A/3123/Rev. 1. [New York], Sept., 1956. 70 pp.°

4259 United Nations. Department of Public Information.
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Notes on the scale of the movement and on emergency relief by the United Nations up to December 11, 1956.

4260 United Nations. Relief and Works Agency for Palestine Refugees in the Near East.
Report of the director: statement before the Special Political Committee, 23 February 1957. A/SPC/13. 1957. New York, 1957. 5 pp., processed.°

4261 Warren, George L.
Meeting the challenge of moving Hungarian refugees. Department of State Bulletin 36(932):743-745. May 6, 1957.
Report of the fifth session of the Council and Executive Committee and the sixth (special) session of the Executive Committee of the Intergovernmental Committee for European Migration.

4262 Witkamp, F. Th.
The refugee problem in the Middle East. R.E.M.P. Bulletin (The Hague) 5(1):3-51. Jan.-March, 1957.
"This study consists of a description of the causes of the flight of the Palestine refugees and of the flight itself, followed by the situation as it is, attempting to suggest possible solutions to the dilemma." Chapter on the future includes a country-by-country survey, based on literature research. Statistical appendices.

[See also Titles 4228, 4263, 4400]

I. INTERNAL MIGRATION

General

4263 Alexandre, S., and Alexandre, J.
[Permanent and alternating migration in the areas surrounding the industrial region of Liége.] Les migrations définitives et alternantes dans les régions voisines de la région industrielle liégeoise. Cercle des Géographes Liégeois, Travaux, No. 95, 1955. Pp. 311-317. Reprinted from: Association Française pour l'Avancement des Sciences, Congrès, 72. Session, Luxembourg, 1953. Actes.°

4264 Burnight, Robert G.
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"Data on the state of birth from each 10-year U. S. Census report from 1850 to 1950 were used to analyze the migration of the native-born population into and from Connecticut."

4265 Conseil Economique Wallon.
[The geographic mobility of Belgian workers: III. Its development in the central region.] La mobilité géographique des travailleurs belges: III. Son évolution dans la région du Centre. Revue du Conseil Eco-

nomique Wallon (Liége), No. 22, Sept.-Oct., 1956.

Idem. IV. Son évolution dans le Borinage. Ibid., Nos. 24-26, Jan.-April, 1957. Pp. 53-73.

For citations to earlier parts of this study, see 23:Title 2279.

4266 Duncan, Otis Dudley, and Duncan, Beverly.

The Negro population of Chicago. A study of residential succession. Chicago, University of Chicago Press; London, Cambridge University Press; Toronto, University of Toronto Press, 1957. xxiv, 368 pp.

A volume in the Chicago Community Inventory of the University of Chicago. "This study...attempts to meet, in part, the demand for factual information concerning trends in the characteristics and distribution of the Negro population in Chicago.... The second purpose of the monograph is... an ecological 'case study'." Chapters: Introduction and summary of main findings; Growth of the Negro population; Migration of Negroes to Chicago; Non-white population composition, 1950 and 1940; Expansion of the Negro community, 1920-50; Stages of succession; Concomitants of succession; Residential succession and the differentiation of Negro residential areas. Appendix [supplementary tables, estimates, statements on definitions and classifications, methodological notes]. Bibliography.

4267 Duocastella, Rogelio.

[Adaptation problems in the case of internal migration. An example in Spain.] Problèmes d'adaptation dans le cas de migrations intérieures. Un exemple en Espagne. Population (Paris) 12(1):115-128. Jan.-March, 1957.

Summary of the results of a field survey in 1955 at Mataro, an industrial town near Barcelona, to study the adaptation of newly arrived Spaniards according to their region of origin. Numerical data on numbers, place of origin, occupation, language.

4268 Gist, Noel P.

Selective migration in South India. Sociological Bulletin (Delhi) 4(2):147-160. Sept., 1955.

"An examination of the selective character of migration of 2 South India cities — Mysore by a random sample of 2,377 male household heads and Bangalore by a stratified sample of 2,467 household heads.... Aspects of migration used were: sources of migrants, age in relation to migration, the selective nature of religious affiliation, occupation, and caste of migrants...." [S. A. 5(1)]

4269 Grisero, V.

[The industrialization of the Aosta Valley and its economic-agrarian and demographic effects.] L'industrializzazione della Valle d'Aosta ed i suoi riflessi economico-agrari e demografici. Rivista di Economia Agraria (Rome) 9(4):526-571. Dec., 1956. With English and French summaries.

Discusses trends in internal migration in a rapidly developing industrial region.

4270 Hannerberg, David, et al., Editors.

Migration in Sweden: a symposium. Lund Studies in Geography, Series B, Human Geography, No. 13. Lund, Sweden, The Royal University of Lund, Department of Geography, and C. W. K. Gleerup, Publishers, 1957. 336 pp. and 10 folding maps.

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Wendel, Bertil. Regional aspects of internal migration and mobility in Sweden, 1946-1950.

Hägerstrand, Torsten. Migration and area: survey of a sample of Swedish migration fields and hypothetical considerations on their genesis.

Lövgren, Esse. Mutual relations between migration fields: a circulation analysis.

Ajo, Reino. New aspects of geographic and social patterns of net migration rate: a pilot study based on Finnish statistics for the year 1951.

Rundblad, Bengt G. Problems of a depopulated rural county.

Winberg, Isak P. Population investigations carried out by the Royal Board of Agriculture, with examples from Loftahammar, Kalmar Län and Northern Roslagen, Stockholms Län.

Dahl, Sven. The contacts of Västeras with the rest of Sweden.

Kant, Edgar. Suburbanization, urban sprawl and commutation: examples from Sweden.

Forbat, Fred. Migration, journey to work and planning.

Grundström, Måns. The journey to work from the statistical point of view.

Gulbrandsen, Odd. Geographical studies of farm migration require a new location system in census returns.

Tarm, Heino. Esthonians in Sweden in 1953. A preliminary report.

Hanssen, Börje. The holistic approach.

4271 Mather, D. B.

Migration in the Sudan. Pp. 115-143 in: Steel, R. W., and Fisher, C. A., Editors. Geographical essays on British tropical lands. See Title 4093, this issue.°

4272 Prothero, R. Mansell
Labour migration in British West Africa. Corona (London) 9(5):169-171. May, 1957.
Description of available statistics and of surveys planned and carried out in 1952 by the Nigerian Department of Statistics and in 1954 by the University College of the Gold Coast. Notes on further surveys and needed data.

4273 Universitas Indonesia. Lembaga Penjelidikan Ekonomi dan Masjarakat Fakultas Ekonomi.
[Some aspects of transmigration in Indonesia.] Beberapa segi transmigrasi spontan di Indonesia. Ekonomi dan Keuangan Indonesia (Djakarta) 10(2):98-115. Feb., 1957.

[See also Titles 4007, 4021, 4056, 4104, 4111, 4131, 4221, 4367, 4416, 4479]

Rural-Urban

4274 Gottmann, Jean.
[Urban expansion and population movements.] Expansion urbaine et mouvements de population. R.E.M.P. Bulletin (The Hague) 5(2):53-60. April-June, 1957. With English summary, pp. 60-61.
A summary description of three phases of rural-urban migration in countries undergoing industrialization, and an anticipation of approaching problems in France and the United States.

4275 Vanni, Manfredo.
[Immigration into Turin from the south of Italy.] L'immigrazione a Torino dall'Italia meridionale. Rivista Geografica Italiana (Florence) 64(1):1-8. March, 1957. With English summary.°

[See also Titles 4007, 4023, 4024, 4071, 4123, 4268, 4270]

Settlement and Resettlement

4276 Farmer, B. H.
Pioneer peasant colonization in Ceylon. A study in Asian agrarian problems. London, New York, Toronto, Oxford University Press, 1957. Issued under the auspices of the Royal Institute of International Affairs. xxviii, 388 pp. and folding map.
"This book is primarily about the efforts which the Government of Ceylon has made in recent years to encourage settlement in the large derelict Dry Zone of the Island of Ceylonese peasants hailing from other and more crowded regions or from land-hungry villages in settled parts of the Dry Zone." Parts: Geographical introduction; The evolution of a policy on peasant colonization in the Dry Zone of Ceylon [1815-1939]; The colonization schemes today.

4277 France. Ministère de l'Agriculture.
[Review of the economic and social impact of rural migration.] Aperçus sur les incidences économiques et sociales des migrations rurales. Revue du Ministère de l'Agriculture, No. 10, Oct., 1956. Pp. 105-112.
Rural resettlement since 1949 and a discussion of the necessary conditions for success. [P.R.T. 12(1)]

4278 Galli Pujato, Juan M.
[The problem of the land and national colonization.] El problema de la tierra y la colonización nacional. Santa Fé, Imprenta de la Universidad Nacional del Litoral, 1950. 291 pp.°

4279 [Great Britain]. Central Office of Information. Reference Division.
Ceylon; progress of land colonization schemes. Commonwealth Survey (London) 20(20):825. 1956.
Resumé of annual report of the Director for Land Development of Ceylon. [T.A. 11(21)]

4280 Martinez Sandoval, Mario.
[Has colonization been a wise policy for the solution of the Mexican agrarian problem?] Ha sido la colonización una forma acertada para la solución del problema agrario mexicani? México, D. F., Universidad Nacional Autonóma de México, 1952. 104, [5] pp.°
Thesis (licenciatura en derecho).

[See also Titles 4008, 4023, 4246]

J. CHARACTERISTICS

Demographic Characteristics

4281 Arias B., Jorge.
[Some errors in age declaration in the population censuses of 1950 in Central America and Mexico.] Algunos errores en la declaración de edad en los censos de población de 1950 en Centro América y México. Estadística (Washington) 14(52):403-425. Sept., 1956. With English summary.
"The present article depicts the application of several well-established methods of measuring the underenumeration of young

children and the 'heaping' on selected digits in age responses in the Central American countries. The paper compares the predilection for certain digits in age reporting by both the Bachi and Myers formulae. In addition, there is an analysis and comparison of the error in age reporting by rural and urban areas and, in Guatemala, a comparison of the Indian and Ladino age responses in these areas. There is also a study of the correlation between illiteracy and age response."

4282 Centro Interamericano de Bioestadística.

[Comparison of the censuses of 1940 and 1952 of Chile by means of mortality statistics.] Confrontación de los censos de 1940 y 1952 de Chile mediante las estadísticas de mortalidad. Santiago, Chile, 1955. 16 pp.

A study completed as a practical work in the special course in demography given by Professor Octavio Cabello in the Course of Vital and Sanitary Statistics, 1955, in the School of Health of the University of Chile. Contains statistical tables. [I.A.S.I. 14 (52)]

4283 Chile. Banco Central de Chile.

[Some results of the 12th general census of population of April 24, 1952.] Algunos resultados del XII censo general de población del 24 de abril de 1952. Boletín Mensual (Santiago) 29:661-669. Nov., 1956.°

4284 Pachner, F.

[About foetus masculinity.] O maskulinitě (pohlaví) plodů. Statistický Obzor (Prague) 37(5):207-214. May, 1957. With brief Russian and English summaries in separate leaflet.

Comparison of Czechoslovak data of the past thirty years with those of other "cultural countries."

4285 Seemann, W. F.

[Sex ratio in newborn after a preceding abortion; medico-anthropological study.] Über das Geschlechtsverhältnis von Neugeborenen nach vorausgegangenem Abort; eine medizinisch-anthropologische Studie. Ärztliche Wochenschrift (Berlin) 11(43-44):965-968. Nov. 2, 1956.°

4286 Ungern-Sternberg, Roderich von.

[Why does the sex ratio increase in the war and immediate postwar years?] Warum steigt die Sexualproportion in Kriegs- und unmittelbaren Nachkriegsjahren? Allgemeines Statistisches Archiv (Munich) 40(3):241-250. 1956.

With a reply by Josef Filser, Ibid., pp. 251-254, and a rejoinder by the author, p. 255.

A consideration of the effect of the increase in first and second pregnancies and consequent decline in induced abortions upon the sex ratio in such periods.

[See also Titles 4021, 4023, 4025, 4032, 4065, 4067, 4069, 4072, 4077, 4081, 4083, 4134, 4188, 4191, 4221, 4227, 4266, 4297, 4298, 4312, 4314, 4352, 4357, 4415, 4426, 4427]

Biological Characteristics

4287 Coerper, C., et al.

[German postwar children. Methods and first result of the German longitudinal study of bodily and mental development at school ages.] Deutsche Nachkriegskinder. Methoden und erste Ergebnisse der deutschen Längsschnittuntersuchungen über die körperliche und seelische Entwicklung im Schulkindalter. Stuttgart, George Thieme Verlag; New York, Intercontinental Medical Book Corporation, 1954. 545 pp.

Initial report of a systematic longitudinal physical and psychological study of a sample of German children (some 44,000) in six communities (Frankfurt/M., Stuttgart, Nürnberg, Bonn, Remscheid, Grevenbroich). In the methodological section, separate chapters are devoted to the social environment, with special attention to the sociobiological diagnosis; to the anthropometric study of the child; to problems of constitutional appraisal; and to psychological examination. [A.J.P.H. 47(5)]

4288 France. Institut National de la Statistique et des Etudes Economiques.

[Survey of the height and weight of school children in 1955.] Enquête sur la taille et sur le poids des écoliers en 1955. Etudes Statistiques, Supplément Trimestriel du Bulletin Mensuel de Statistique, No. 1 of 1957, Jan.-March, 1957. Pp. 9-20.

Report of findings of a survey of 57,000 school children aged 5-15 in metropolitan France by the Ministry of National Education in June, 1955, compared with results of the survey of 350,000 such children in 1950. Description of sampling technique and measurements taken. Tabular and graphic presentation of findings, classified by sex and residential zone and by occupational class.

4289 Lapp, R. E.

Strontium-90 in man. Science 125(3254): 933-934. May 10, 1957.

Discussion of paper of that title by J. L.

Kulp et al (see 23:Title 3287).

4290 Osborne, Richard H.
Hereditary and environmental factors in body build: a study of 100 pairs of adult twins. Dissertation Abstracts 16(7):1201. 1956.°

4291 Penrose, L. S.
A note on the prevalence of genes for deleterious recessive traits in man. Annals of Human Genetics 21(3):222-223. March, 1957.

4292 Russell, Paul F.
World-wide malaria distribution, prevalence, and control. American Journal of Tropical Medicine and Hygiene 5(6):937-965. 1956.
"Eighteen tables list all the world's countries and territories giving population, population in malarious areas, and population routinely protected." [B.A. 31(5)]

[See also Titles 4068, 4167, 4420, 4442]

Psychological Characteristics

4293 García Luquero, C.
[Mental processes in Spain; quantitative health study.] Los procesos mentales en España; estudio sanitario cuantitativo. Revista de Sanidad e Higiene Pública (Madrid) 30(9-10):569-593. Sept.-Oct., 1956.°

4294 Long, Howard H.
The relative learning capacities of Negroes and Whites. Journal of Negro Education 26(2):121-134. Spring, 1957.
Comment on the validity of evidence presented in an article by Frank C. McGurk, A scientist's report on race differences, in U. S. News and World Report, Sept. 21, 1956.

4295 Tuyns, A.
[Frequency of the smoking habit in an urban population.] Fréquence de l'habitude de fumer, dans une population urbaine. Archives Belges de Médecine Social, Hygiène, Médecine du Travail et Médecine Légale (Brussels) 14(5):275-278. May, 1956.°

4296 Zaire.
[Present usefulness of the tests for the psychological study of the aborigines of the Congo.] Utilité actuelle des tests pour l'étude psychologique des autochtones congolais. Zaire (Brussels) 10:787-801. Oct., 1956.°

[See also Titles 4029, 4287, 4435]

Economic Characteristics

4297 Douglass, Joseph H.
The Negro family's search for economic security. Washington, U. S. Department of Health, Education and Welfare, July 2, 1956. 174 pp. plus tables and appendix variously paged. Processed.
Chapters include: General trends in the status of the U. S. family; Selected characteristics of the U. S. population; Labor-force distribution and trends in occupational distribution of nonwhites; Income; Social security and the Negro; Consumption and expenditure; Summary, analysis and conclusions.

4298 Durr, Fred.
Population and labor force. Economic development in south central Kansas. Part IV. Lawrence, School of Business, Bureau of Business Research, University of Kansas, 1957. [x], 96 pp.
Analysis of U. S. census data and official statistics of Kansas, published and unpublished. Present and recent characteristics of the whole population. Labor-force composition, size, employment status, occupation, industry groups, agriculture, manufacturing. Tables, charts.

4299 Fornaciari, Maria L.
[Female labor in France.] Il lavoro femminile in Francia. Rivista Internazionale di Scienze Sociali (Rome) 28(1):45-51. Jan.-Feb., 1957.
A review article summarizing recent studies of the period 1906-1954.

4300 France. Institut National de la Statistique et des Etudes Economiques.
[The French economic area: population, production, income, by departments.] L'espace économique français: population, production, revenus, par département. Paris, 1955. 120 pp.°

4301 Henry, Louis, and Febvay, Maurice.
[The housing situation in the Paris region.] La situation du logement dans la région parisienne. Population (Paris) 12(1): 129-140. Jan.-March, 1957.
A study of recent changes in housing needs, based mainly on the census of 1954.

4302 Johnson, John L., and Chuh, Y. Y.
Personal income in Kentucky counties 1954. Lexington, Bureau of Business Research, University of Kentucky, 1956. [ii], 18 pp., processed.
The first annual survey to use personal income instead of payments to individuals as the basis of measurement.

4303 Kono, S., and Smythe, H.
Demographic aspects of the Japanese economically active population. Sociologus (Berlin) 7(1):75-77. 1957.
Discusses labor-force participation rates and the present and prospective size of the labor force.

4304 Moberg, Sven.
Gainful occupations taken up by women who have matriculated. Förvärvsarbete bland kvinnor med studentexamen. Sociala Meddelanden (Stockholm), No. 1 of 1957. Pp. 20-24. With English and French summaries, pp. 67-68.
Presents results of sample surveys in Sweden in 1948-1949 and in 1952, with data also on academic and marital status and length of working life.

4305 Mulina, T., and Cvetković, R.
[A projection of the skill structure and of the educational level of manpower in Yugoslavia.] Ekonomist (Belgrade), No. 3, 1956. In Croat, with English summary.°

4306 National Bureau of Economic Research. Conference on Research in Income and Wealth.
Regional income. Studies in Income and Wealth, Vol. 21. Princeton, Princeton University Press, 1957. 408 pp.
Ten papers, prepared for the Conference held in June 1955, together with participants' comments, consider the problems of income studies for areas smaller than the United States national unit (states, counties, cities). Papers discuss conceptual issues, recent empirical investigations of interregional differences, and certain problems in the estimation of county income.
Partial contents:
Mansfield, Edwin. City size and income, 1949.
Shryock, Henry S., Jr. Development of postcensal population estimates for local areas.

4307 Tung Chi Kung Tso Tung Hsin.
China's workers in 1955: their number, composition and distribution. [Translated from the Chinese text in] Tung Chi Kung Tso Tung Hsin [Statistical Work Bulletin], No. 23, Dec. 14, 1956. Pp. 27-34 in: Extracts from China Mainland Magazines (Hong Kong), No. 68, Feb. 4, 1957.
Summary of data collected in a special survey, Sept. 30, 1955, "in state owned, local state owned, cooperative, joint state-private owned enterprises and business units and state organs throughout the country" but excluding "Party committees, military establishments, democratic parties and groups, people's organizations, and private enterprises and business units." Notes on the proportion of women workers by industry and on distribution of all workers by scale of enterprise. Discussion of problems revealed by the survey, including an unbalanced regional distribution, with large concentration in the coastal areas.

4308 Oklahoma Employment Security Commission. Research and Planning Division.
Handbook of employment statistics: Oklahoma, 1939-56. Oklahoma City, Feb., 1957. 47 pp.
"Tabulation on employment, unemployment, hours and earnings for State, Oklahoma City, and Tulsa. Historical statistics for principal lines of industry and trade. Monthly total data on labor force and nonfarm employment stabilization." [D.D.G. 4(5)]

4309 Oriental Economist.
Manpower supply. Oriental Economist (Tokyo) 25(559):234-236. May, 1957.
Survey of current shortages and surpluses in the industrial and trade sectors of the Japanese labor market.

4310 United Nations. Economic Commission for Europe.
Highly qualified technical manpower in Western Europe. United Nations Economic Bulletin for Europe (Geneva) 9(1):41-66. May, 1957.

4311 United Nations. Economic Comission for Latin America.
Changes in employment structure in Latin America 1945-1955. Economic Bulletin for Latin America (Santiago, Chile) 2(1): 15-42. Feb., 1957.
"After a brief exposition of the demographic background....Section I comprises a description of general employment structure around 1950, an examination of the employment pattern observable in individual countries of Latin America, and an indication of the alterations in employment structure during the decade 1945-55, with a subsequent analysis of facts related to the productivity of manpower in the main economic sectors and of the trends to be noted in the changes that have occurred. In section II the situation as to the labour force and its changes is discussed in relation to agriculture, mining, industry and services, and finally, consideration is given to the characteristics of Latin American urban employment and to the principal tendencies

observed during the past decade. By way of conclusion, an attempt is made to qualify all the changes indicated from the standpoint of their relative influence on economic growth, and to determine whether this latter development was adequately balanced.... A full list of sources and a detailed explanation of the methods of calculation used...will be appended to the Manpower Survey in Latin America now in course of preparation by the Secretariat."

4312 Winnick, Louis.
American housing and its use. The demand for shelter space. With the assistance of Ned Shilling. A volume in the Census Monograph Series. New York, John Wiley and Sons, Inc.; London, Chapman and Hall, Ltd., for the Social Science Research Council in cooperation with the U. S. Department of Commerce, Bureau of the Census, 1957. xiv, 144 pp.
Chapters discuss measuring the utilization of housing; the relation of the person-per-room ratio to income, to household size, to value and rent, and to location and race; space trends in the housing inventory; and the changing household. Appendixes include methodological discussion, additional tables, and a note on errors in census reports.

[See also Titles 4007, 4025, 4065, 4067, 4072, 4077, 4089, 4090, 4091, 4118, 4124, 4126, 4237, 4326, 4332-4339, 4341, 4343, 4359, 4473, 4486, 4491]

Social Characteristics

4313 Landis, Benson Y.
World religions. A brief guide to the principal beliefs and teachings of the religions of the world and to the statistics of organized religion. New York, E. P. Dutton, 1957. 158 pp.
Section on statistical tables gives estimates of numbers affiliated for the world as a whole and for Canada, Great Britain, and the continental United States separately.

4314 Mironenko, IU. P.
The social structure of the population of the Soviet Union and its national republics in the light of a new statistical collection. Obzor Vazhneishikh Sobytii v SSSR (Munich) 3(12):1-18. Dec., 1956. In Russian.°

[See also Titles 4042, 4067, 4077, 4221, 4304, 4305, 4415]

Ethnic Characteristics

4315 Barabas, J.
[Conclusions from the work on a European ethnographic atlas.] Ethnographia (Budapest) 66(1/4):409-426. 1955. In Hungarian.°

[See also Titles 4072, 4077, 4089, 4091, 4094, 4101, 4130, 4194, 4221, 4231, 4246, 4360, 4368, 4457]

K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

Demographic Factors and Resources

4316 Baade, Fritz.
[The world food economy.] Welternährungswirtschaft. Rowohlts Deutsche Enzyklopädie, Band 29. Hamburg, Rowohlt, 1956. 174 pp.
"A popular and mainly factual discussion of world food production and its development in relation to population trends." [E.J. 67(266)]

4317 Bethke, S.
[Present and future problems of world food economy.] Gegenwärtige und zukünftige Probleme der Welternährungswirtschaft. Berichte über Landwirtschaft (Hamburg) 35(1):150-163. 1957.
Notes on trends in world population growth, prospective growth to the year 2100, and potential food production.

4318 Brown, Harrison S., et al.
The next hundred years: man's natural and technological resources. A discussion prepared for leaders of American industry. New York, Viking Press, 1957. 193 pp.
"Three professors of the California Institute of Technology...a geochemist, a biochemist and psychologist...have tackled the problems of man's natural and technological resources and found them uncomfortably sparse." [New York Times 6/10/57]

4319 Callison, Charles H., Editor.
America's natural resources. Edited for the Natural Resources Council of America. New York, Ronald Press, 1957. vi, 212 pp.
Contains chapter, Renewable resources and human populations, by Fairfield Osborn.

4320 Doane, Robert R.
World balance sheet; a comprehensive,

inventoried examination covering the extent, distribution, and relative depletion of the world's physical resources in relation to their present rate of consumption, their monetary counterpart valuation, and the population, showing comparative changes over a seventy-year period — in double-entry form, revealing where-from and where-to. New York, Harper, 1957. xi, 260 pp.

Chapter VI, People, gives a non-technical account of world population, covering regional estimates of numbers, distribution, growth trends, age composition, linguistic distributions, migration movements, with brief discussion of optimum and Malthusian theories and of ratios of population to land and other resources.

4321 International Geographical Congress, 17th.

Symposium on world food supply. Pp. 103-111 in: Proceedings of the..., Washington, D. C., 1952. [1957.]°

Includes:

Castro, Josué de, and Ferreira Reis, Arthur. Food problems in the Amazon area.

Schultz, Theodore W. The supply of food in relation to economic development.

Kuriyan, George. Food problem in India.

[See also Titles 4003, 4010, 4017]

Economic Growth

4322 Aron, Raymond, et al.

The Soviet economy: a discussion. London, published for the Congress for Cultural Freedom by Secker and Warburg, 1956. 158 pp.

Includes discussion of population growth and redistribution as factors in economic growth. Report of conference at Milan, September 12-17, 1955.

4323 Dupriez, Léon H., and Hague, Douglas C., Editors.

Economic progress: papers and proceedings of a round table held by the International Economic Association. Louvain, Institut de Recherches Economiques et Sociales, 1955. 574 pp., processed. With duplicate titles in French. Texts in English or French.

Partial contents:

Kuznets, Simon. Population, income and capital (statistical evidence).

Rostow, W. W. Trends in the allocation of resources in secular growth.

Sauvy, A. [Occupational migration and professional training as prerequisites and consequences of progress.] Migrations et formation professionnelles comme conditions et conséquences du progrès.

4324 Edsall, Richard L.

Canada and the United States: two portraits of economic growth. Canadian Business 30(5):24-43. May, 1957.

Population is one of three criteria of growth considered.

4325 Enke, Stephen.

Speculations on population growth and economic development. Quarterly Journal of Economics 71(1):19-35. Feb., 1957.

Considers primarily problems of capital investment in underdeveloped countries with rapid rates of population increase. Hypothetical models contrast quantitatively the effects over 50 years of two alternative investment plans, concentrating respectively on urbanization with industrialization and on land reclamation. Considers ways in which taxes and other incentives and government policy in international trade and finance may inhibit or encourage excessive population growth.

4326 Goldstein, Sidney, and Mayer, Kurt.

Patterns of business growth and survival in a medium-sized community. Journal of Economic History 17(2):193-206. June, 1957.

A reconstruction of the industrial and business structure of the Norristown, Pa., community since 1900, on the basis of data from city directories, with statement of concomitant population changes.

4327 Kneschaurek, Francesco.

[The influence of population growth on the economic situation of Switzerland in the next 10-15 years.] Der Einfluss der Bevölkerungsentwicklung auf die Wirtschaftslage der Schweiz in den nächsten 10-15 Jahren. Organisation (Zurich) 25(2):43-48. 1956.°

4328 Nicholls, William H.

Human resources and industrial development in the upper East Tennessee Valley, 1900-1950. Quarterly Journal of Economics 71(2):289-316. May, 1957.

Report of a statistical analysis of the correlations of a number of demographic and economic characteristics with per capita value added by manufacture 1947 in twenty counties in Tennessee and southwest Virginia, including some "which have enjoyed substantial industrial-urban growth since 1900 and others which have remained largely rural and agricultural."

4329 Randall, Darrell.
Factors of economic development and the Okovango Delta. Some world relationships to and problems of planning for economic development of an underdeveloped area in Africa. University of Chicago Program of Education and Research in Planning, Research Paper No. 3. Department of Geography, Research Paper No. 47. Chicago, 1957. xii, 268, [ii] pp., processed.
"This dissertation has attempted to outline a framework for analysis of factors involved in economic development of an underdeveloped area. A checklist of factors and policy decisions for planning are summarized in Appendix I and II...." Demographic factors are considered (population size and characteristics, health, reproduction, migration movements, growth trends, etc.).

4330 Smith, Robert S.
Population and economic development in Latin America. Southern Economic Journal 24(1):54-62. July, 1957.
A critical survey of recent literature on the economic absorptive capacity of the Latin American countries, singly and as a whole.

[See also Titles 4007, 4009, 4010, 4015, 4016, 4020, 4027, 4028, 4043, 4137, 4225, 4311]

Labor-Force Participation

4331 Alleger, Daniel E.
Rural farm retirement. A study of rural retirement in five Florida counties. University of Florida, Agricultural Experiment Stations Bulletin 583. Gainesville, 1957. 52 pp. One of the series, Southeast Regional Land Tenure Committee.
Report of sample survey in 1952 and 1953, covering interviews with 175 family heads. Data presented include that on place of birth, work histories, disability by age, total income, capital invested in farming.

4332 Blank, David M., and Stigler, George J.
The demand and supply of scientific personnel. National Bureau of Economic Research, General Series, No. 62. New York, National Bureau of Economic Research, 1957. xx, 200 pp.
"The present monograph is primarily a study of the methods by which one can explain movements in the supply and demand for scientific personnel. Rather than discuss the problem in abstract terms, however, we have deemed it more fruitful to apply the methods under examination to the recent situation in the technological professions in the United States, that is, up to 1955."

4333 Caranti, Elio.
[Considerations on the birth cohorts entering the working ages and on the labor force.] Considerazioni sulle leve e sulle forze di lavoro. Rassegna di Statistiche del Lavoro (Rome) 8(5/6):227-234. Sept.-Dec., 1956.
An essay in terminological definition with particular regard to the description in Italian statistical literature of youths of working age who are not yet members of the labor force. Presents illustrative Italian data, estimates, and projections, 1946-1960.

4334 Declercq, G., and Vanneste, O.
[Structural unemployment. Vol. I. Theory of structural unemployment. Vol. II. Structural unemployment in West Flanders.] Structurele werkloosheid. Deel I. Theorie van de structurele werkloosheid. Deel II. Structurele werkloosheid in West-Vlaanderen. Louvain-Kortrijk, Centrum voor Economische Studiën van de Katholieke Universiteit te Leuven, 1957. XIV, 130 pp.; VIII, 278 pp. and 6 maps.

4335 Oettli, H.
[Development and problems of the work of women in industry and trades.] Evolution et problèmes du travail féminin dans l'industrie et l'artisanat. Revue Syndicale Suisse (Bern), Nov., 1956. Pp. 321-327.
The proportion of women employed in industry in relation to the total population; conditions of work, wages, statistical data. [B.A.D. 12(1)]

4336 S., A. Q.
[Problems of the labor market in Western Europe.] I problemi del mercato del lavoro nell'Europa occidentale. Rassegna di Statistiche del Lavoro (Rome) 8(5/6): 250-266. Sept.-Dec., 1956.
Topics discussed: population growth in the next 15 years; factors influencing the offerings of labor (pension systems, length of schooling period, participation of women in the labor force); the reorganization of the less productive sectors (with particular reference to agriculture; unemployment and labor mobility (seasonal unemployment, local pockets of unemployment, occupational training); the wage structure in periods of full employment; the problem of inflationary wage increases.

4337 U. S. Bureau of Labor Statistics.
A special section on New England [a

group of articles]. Monthly Labor Review 80(3): II-IV, 271-320. March, 1957. Also reprinted as U. S. Labor Department Bulletin No. 1212. Washington, 1957. VI, 50 pp.

Partial contents: Historical patterns and recent trends in employment. Wages and personal income. The problem of depressed areas.

4338 U. S. Bureau of Labor Statistics.
Employment and economic status of older men and women. Bulletin No. 1213. Washington, Dec., 1956. 42 pp. Revision of Bulletin No. 1092.

Contents: Population trends; Trends in the labor force; Work experience of men and women in 1955; Life expectancy and the length of working life; Income and sources of income; Retirement and pension programs based on employment; Public retirement and pension systems; Extent to which workers eligible for pensions continue in employment. 30 tables; 3 charts.

[See also Titles 4002, 4181, 4299, 4303, 4311, 4344, 4347, 4472]

Occupation and Industry

4339 Gad, H.
[Population and labor-force problems in Danish agriculture. I. Population shifts in Danish agriculture, 1787-1950.] Befolknings- og arbejdskraftproblemer i dansk landbrug. I. Befolkningsforskydninger i dansk landbrug i tiden fra 1787-1950. Studier fra Aarhus Universitets Ökonomiske Institut, 12. Aarhus, 1956.°

4340 France. Conseil Economique.
[Study of the growth of the rural population and of the demographic hypotheses drawn up by the Commissariat du Plan to serve as the basis for establishing the agricultural part of the third plan for modernization and equipment.] Etude de l'évolution de la population rurale et des hypothèses démographiques formulées par le Commissariat du plan, devant servir de base à l'établissement de la partie agricole du 3e plan de modernisation et d'équipement. Journal Officiel, Avis et Rapports du Conseil Economique (Paris), Dec. 7, 1956. Pp. 874-887.

87 statistical tables. [B.A.D. 12(1)]

4341 Germany. Federal Republic. Statistisches Bundesamt.
[The labor force in the agricultural undertakings in July 1956.] Die Arbeitskräfte der landwirtschaftlichen Betriebe in Juli 1956. By W. Schm. Wirtschaft und Statistik 9(3): 154-160, 118*. March, 1957. [Discusses the sample survey of workers in agriculture initiated in the summer of 1956: employment, activity (problem of excluding housework), and work-time classification. Tables on: workers, family and non-family workers, work-months per 100 persons; size of farms and distribution by Lände cross-classified by owners, family workers, time worked, etc.]

[The agricultural undertakings as a source of earnings or livelihood of the owner and his family.] Die landwirtschaftlichen Betriebe als Erwerbs- oder Unterhaltsquelle der Betriebsinhaber und ihrer Familienangehörigen. By W. Schm. Wirtschaft und Statistik 9(4): 219-223, 176*-177*. April, 1957. [A continuation of the article cited above.]

4342 Halperin, Haim.
Agricultural production and mass immigration in Israel. Tel-Aviv, General Federation of Jewish Labour in Israel, 1953. 62 pp.°

4343 Pressat, Roland.
[The agricultural population in France: present structure and projections to 1966.] La population agricole en France: structure actuelle et prévisions jusqu'en 1966. Population (Paris) 12(1): 17-35. Jan.-March, 1957.

Study of changes in demographic structure, length of working life, and movement into and out of agriculture of the male agricultural population in France, 1901-1954. Methodological notes, presentation and analysis of data, discussion of prospects, including projections of trends, 1956-1961-1966, and discussion of problems and alternatives. Notes on need for regional studies.

[See also Titles 4025, 4086, 4123, 4124, 4269, 4288, 4304, 4307, 4309, 4311, 4331, 4388, 4407, 4491]

Business Fluctuations

See Title 4002.

Economic Dependency

4344 Bergmann, Th.
[Social security and agricultural population; basis for an international comparison.] Soziale Sicherung und landwirtschaftliche Bevölkerung: Unterlagen für einen internationalen Vergleich. Bonn, For-

schungsgesellschaft für Agrarpolitik und Agrarsoziologie, 1956. ii, 100 pp.°

4345 Naber, A. N.
[Pensionable age in connection with national economy.] Umur hak pensiun berhubung dengan ekonomi nasional. Ekonomi dan Keuangan Indonesia (Djakarta) 9(8): 490-496. Aug., 1956.

4346 National Bureau of Economic Research.
Suggestions for research in the economics of pensions. Report of an exploratory survey of the economic aspects of organizing pensions for the aged and surviving dependents. New York, 1957. xii, 52 pp.
The suggested program of research has five parts: Present and future scope and characteristics of pension plans; Impact of present and future pension plans on savings and investment; Relation of present and future pensions to the level and distribution of national income and product; Pensions and stability; The tax treatment of pensions and the aged.

4347 Shenfield, Barbara E.
Social policies for old age: a review of social provision for old age in Great Britain. International Library of Sociology and Social Reconstruction. London, Routledge and Kegan Paul, 1957. viii, 236 pp.
Chapters: Producers and dependants; Employment — (1) ageing and industry; Employment — (2) reasons for retiring or continuing at work; Pensions; Housing; Residential care and domiciliary welfare services; Medical care. Appendixes: Post-war trends in employment of older workers, 1945-1948; Inquiry into employment policies towards older workers in 57 firms; Inquiry into home conditions of 2,500 persons over seventy.

[See also Titles 4297, 4408, 4409, 4444]

Other Economic Variables

4348 Alkjaer, E.
[Youth on the Danish market. An analysis of the 14-19-year-olds' influence on purchases and consumer goods.] Ungdommen på det danske marked. En analyse af de 14-19 åriges indvirkning på købe og forbrugsvanerne. Copenhagen, Copenhagen School of Business Administration, 1956. 86 pp.
"This study of the role of teenagers in the Danish market analyses the subject under two heads: the teenagers' own consumption and their influence on household consumption." [E.R. 67(266)]

4349 Hansen, W. Lee.
A note on the cost of children's mortality. Journal of Political Economy 65(3): 257-262. June, 1957.
An analysis, directed toward establishing the "proper magnitude of direct costs," is applied to estimates of Indian mortality and cost ratios based on them, presented by D. Ghosh in 1946 [see 14(1):Title 18]. Indian data of both 1931 and 1951 are employed, and additional ratios, not included by Ghosh, are indicated.

4350 Italy. Documentation Centre.
Remittances of Italian emigrants. An important contribution to the balance of payments. Italian Affairs 6(2):1623-1624. March, 1957.
Summary of data, 1945-1955.

4351 McCord, Carey P.
Seven thousand new mouths to be fed every morning. Industrial Medicine and Surgery 26(5):245-248. May, 1957.
Considers the population upsurge in the U. S. A., the desirability of vastly increased numbers, and the implications for industry and industrial medicine.

4352 New York. State Department of Commerce.
Effects on business of recent changes in population by age groups. New York State Commerce Review 11(5):1-5. May, 1957.
Considers changes in the number of preschool children (under 5 years), the school-age group (5-17 years), the working population (18-64), older persons (65 years and over). Presents table, Estimates of the civilian population by age group, United States by geographic divisions and largest states, July 1, 1955 (U.S.B.C. data).

[See also Titles 4026, 4056, 4306]

L. OTHER INTERRELATIONS

Demographic and Social Factors

4353 Bell, Wendell.
Familism and suburbanization: one test of the social choice hypothesis. Rural Sociology 21(3-4):276-283. Sept.-Dec., 1956.
Report of a poll of 100 recent movers to two Chicago suburbs on motives for the move. Statement of test hypothesis, description of sample, summary of findings.

4354 Belshaw, Cyril S.
The great village: the economic and so-

cial welfare of Hanuabada, an urban community in Papua. London, Routledge and Kegan Paul, 1957. xviii, 302 pp.

A systematic study based on field work by the author, Sept., 1950, to Sept., 1951. Chapters include: Basic residence and relationship pattern; Demography and health; Marital relations. Appendix 1, Composition of Iduhu [table of households with notes on origin and number of adult males]. Appendixes 2-6 present genealogical and kinship diagrams. Appendix 7, Numbers of married women in five-year age-groups, arranged by size of living family, and number of children ever born for each woman. Appendix 8, Mortality of children born to parents still living, by age of death. Appendix 19, Pro forma for village census.

4355 Brepohl, Wilhelm.

[Industrial peoples in transition from the agrarian to the industrial form of existence, illustrated by the Ruhr district.] Industrievolk im Wandel von der agraren zur industriellen Daseinsform dargestellt am Ruhrgebiet. Münster Universität, Sozialforschungsstelle, Soziale Forschung und Praxis, Band 18. Tübingen, Mohr, 1957. 400 pp.°

4356 Forthomme, Georges.

[Marriage and industrialization. Changing attitudes of the indigenous population in a workers' quarter of Elisabethville.] Mariage et industrialisation. Evolution de la mentalité indigène dans une cité de travailleurs d'Elisabethville. Institut de Sociologie de l'Université de Liége, Travaux VIII. Liége, Imprimerie H. Vaillant-Carmanne, S. A., 1957. vii, 104 pp.

A sociological study of changes in attitudes and custom accompanying the transition from tribal to industrial life. After a general introduction to the subject, there are described for each topic (preparation for marriage, marriage, conjugal life, dissolution of marriage) the traditional conditions and the present conditions. [P. R. T. 12(2)]

4357 France. Institut National d'Etudes Démographiques.

[Ageing and public knowledge.] Le vieillissement et l'information du public. By H. B. Population (Paris) 12(1):147-148. Jan.-March, 1957.

Notes on replies to two further questions asked in the survey reported in Title 4359, this issue.

4358 Gerfeldt, E.

[Chronologic rhythm of births, illnesses, and deaths; meteorologic influence and social environment.] Zeitliche Rhythmik bei Geburten, Erkrankungen und Todesfällen; meteorologische Einflüsse und soziale Peristase. Archiv für Hygiene und Bakteriologie (Munich) 140(7):540-558. 1956.°

4359 Girard, Alain, and Bastide, Henri.

[Standard of living and occupational distribution: a survey on public knowledge and attitudes.] Niveau de vie et répartition professionnelle: enquête sur l'information et les attitudes du public. Population (Paris) 12(1):37-70. Jan.-March, 1957.

Report of sample survey of 2535 persons throughout France in November and December 1956. Description of sample and summary of results. See also Title 4357, this issue.

4360 Kaplan, Benjamin.

The eternal stranger. A study of Jewish life in the small community. New York, Bookman Associates, 1957. 198 pp.

Chapters include: History of the Jews in the United States [including the history of migration into the U. S. A. and a history of the Jews in Louisiana]; The Jewish community in the United States [including a description of the ideal-typical American Jewish community of today]; and chapters on three separate communities in Louisiana in which numbers, occupation and economic structure, and social life are described and analyzed. Summary of analytical considerations. Appendixes include complete lists of inscriptions on the headstones found in the Jewish cemetaries in two of the communities.

4361 Mantilla Pineda, Benigno.

Sociología de la población. Publicaciones de la Revista Universidad de Antioquia. [Medillín], Impr. Universidad de Antioquia, [1955]. 28 pp.°

4362 Odoroff, Maurice E., and Abbe, Leslie M.

Use of general hospitals: demographic and ecologic factors. Public Health Reports 72(5):397-404. May, 1957.

Report on the Public Health Service survey of general hospital use matched with data on personal characteristics (sex, race, age, movement, veteran status) and with geographic and economic factors in the United States.

4363 Shryock, Richard H.

The significance of medicine in American history. American Historical Review 62(1):81-91. Oct., 1956.

Discussion of the interrelations between

social forces and the development of medical research and practice in the United States, with particular reference to increasing life expectancy.

4364 Tambiah, S. J., and Ryan, Bryce.
Secularization of family values in Ceylon. American Sociological Review 22(3):292-299. June, 1957.
"This paper summarizes one aspect of an extensive study of secularization in Ceylon villages conducted in 1949-54.... Our primary hypothesis is that 'strong family' and high fertility values are weakened by expanding contacts with the more urban and secular world. Three rural Sinhalese communities were studied," all composed of Buddhist peasants and with the same "institutional complexes." Report of findings of attitude surveys correlated with types of secular contact.

4365 Titmuss, Richard M.
Industrialization and the family. Social Service Review 31(1):54-62. March, 1957.
Comments on psychological and institutional effects. Paper presented at the International Conference of Social Work, Munich, August 6, 1956.

4366 United Nations. Bureau of Social Affairs.
Report on the world social situation including studies of urbanization in underdeveloped areas. Prepared by the Bureau of Social Affairs, United Nations Secretariat, in co-operation with the International Labour Office, the Food and Agricultural Organization, the United Nations Educational, Scientific and Cultural Organization, and the World Health Organization. E/CN.5/324/Rev. 1. ST/SOA/33. Sales No.: 1957.IV.3. New York, 1957. viii, 198 pp.
Part I, on the social situation of the world, has chapters: World population trends; Health conditions; Food and nutrition; Education; Conditions of work and employment. Emphasis on implications for under-developed countries. Statistical appendices.
Part II, on urbanization, has chapters: Social problems of urbanization in economically under-developed areas; Urbanization in Africa south of the Sahara; Urbanization in Latin America. Annex: Conclusions of the Joint UN/UNESCO Seminar on Urbanization in the ECAFE region (Bangkok, Thailand, 8-18 August 1956).

[See also Titles 4007, 4016, 4023, 4029, 4050, 4120, 4123, 4203, 4266, 4281, 4311, 4415]

Demographic and Political Factors

4367 Banfield, Edward C.
The politics of metropolitan area organization. Midwest Journal of Political Science 1(1):77-91. May, 1957.
Considers influences of population migration on voting in the suburban ring and the effect of the latter on the political feasibility of rational reorganization of administrative units.

4368 Congressional Quarterly News Features.
For whom did Negroes vote in 1956? Congressional Quarterly Weekly Report 15(23):704-705. June 7, 1957.
Summary of a statistical survey of voting in the Presidential and Congressional elections of 1956 in congressional districts classified according to Negro percentages of population in 1950.

4369 Dworkis, Martin B., Editor.
The impact of Puerto Rican migration on governmental services in New York City. By Rhoda H. Berkowitz et al. [Project of] New York University, Graduate School of Public Administration and Social Service. New York, New York University Press, 1957. 74 pp.
Articles, written by graduate students as part of a group field-research project in 1953-54, deal with the impact on housing, employment, welfare services, educational services, health and hospital services, crime and delinquency.

4370 Low, Stephen.
The effect of colonial rule on population distribution in the Philippines, 1898-1941. Tufts University, Fletcher School of Law and Diplomacy, Thesis abstract, 1956, No. 9. Medford, Mass., [1956]. 6 pp., processed.°

4371 Metropolitan Life Insurance Company.
The voting population. Statistical Bulletin 38(5):3-5. May, 1957.
Comparison of civilian population of the United States of voting age and votes cast for Presidential electors, by states, 1956 and 1952.

4372 University of Michigan. Institute for Social Research.
Comparison of election behavior of Negroes with total population. Publication No. 952. Ann Arbor, 1953. 2 pp., processed.°
A part of the Detroit Area Study.

[See also Titles 4022, 4026, 4071, 4108, 4112, 4115, 4447]

Demographic and Other Factors

4373 Böök, J. A.
Genetical investigations in a North Swedish population. The offspring of first-cousin marriages. Annals of Human Genetics 21(3):191-221. March, 1957.
"Within a certain North Swedish geographical isolate all marriages between first cousins on 1 September 1947 were registered. The data comprise thirty-four such marriages with a total of 218 live-born children and thirty-two random control families with 165 children."

4374 Crow, James F.
Possible consequences of an increased mutation rate. Eugenics Quarterly 4(2):67-80. June, 1957.
An attempt to assess the effects of radiation-increased mutation rates on the population. Outlines current state of theory and presents crude estimates of the effect of 10 r of radiation on the human population, with respect to specific diseases, gross mental or physical defect, infant and childhood death, embryonic and infant deaths, total "genetic deaths." Discusses evolutionary considerations and implications for policy.

4375 Floch, H.
[Effects of the antimalarial campaign on natality, pregnancy wastage, and infant mortality in French Guiana.] Influence de la lutte antipaludique sur la natalité, la mortinatalité et la mortalité infantile en Guyane Française. Bulletin de la Société de Pathologie Exotique et de ses Filiales (Paris) 49(4):647-651. July-Aug., 1956.°

[See also Titles 4011, 4288, 4289, 4358]

M. POLICIES

General Population Policy

4376 Fiebich, Kurt.
[Statistics as a state secret. Population policy of the Soviet Zone.] Statistik als Staatsgeheimnis. Sowjetzonale Bevölkerungspolitik. Die Gegenwart (Frankfurt am Main) 10(26):828-829. 1955.°

4377 Wu Ching-ch'ao.
A new treatise on the problem of China's population. [Translated from Chinese text in] Hsin Chien She [New Construction], Issue No. 3, March 3, 1957. Pp. 1-16 in: Extracts from China Mainland Magazines (Hong Kong), No. 78, April 15, 1957.
The author outlines his revised position on population policy. First repudiates previous errors: i.e. that unemployment was caused by overpopulation and that the birth rate was likely to fall below the replacement level after industrialization. Affirms present views: that the primary need is to increase socialist production by raising productivity rather than the size of the labor force. Mechanization depends on capital accumulation, and is retarded when too many workers have to be absorbed. Estimates desirable rate of population increase on the basis of capital available for socialist construction. Draws comparisons with Soviet and Indian experiences. Outlines investment priorities and advocates birth control for mothers with three children or more. Refutes the appellation of "New Malthusianism" by indicating confidence that food production and living standards will outstrip population growth, as he states they have up to now in Socialist China. Author is Professor of China People's University, member of China Democratic League, member of CPPCC National Committee, and deputy of NPC.

[See also Titles 4020, 4027, 4201]

Measures Affecting Fertility

4378 Conseil Economique Wallon.
[Basis for a system of family allowances socially just and demographically effective.] Bases d'un régime d'allocations familiales socialement juste et démographiquement efficace. Revue du Conseil Economique Wallon (Liége), Nos. 24-25, Jan.-April, 1957. Pp. 10-17.

4379 Davidson, George F.
Canada's family allowances in retrospect. Children 4(3):83-88. May-June, 1957.
Summary of the experience of the first twelve years of the Family Allowances Act.

4380 Dubois-Dumée, J.-P.
[Are we going to control births?] Va-t-on contrôler les naissances? Paris, Bibliothèque de l'Homme d'Action, 1956. 128 pp.
After a brief history of birth control and a glance at the situation in other countries, the demographic, social, psychological, and moral aspects to the question are examined. An answer to the questions raised by Derogy (see 22:Title 4358) is given from the Catholic point of view. The text of the projected law and a bibliography are included.

4381 Echegollen Melo, Alonso.
[Abortion and feticide.] Aborto y feticido. México, D. F., Universidad Nacional Autónoma de México, 1952. 63 pp. Thesis (licenciatura en derecho).°

4382 Erkkila, S.
[Insemination as a problem in social medicine and family law.] Insemination som ett social-medicinskt och familjirättsligt problem. Social-Medicinsk Tidskrift (Stockholm) 33(9):359-363. Nov., 1956.°

4383 Far Eastern Economic Review.
China's birth control campaign. Far Eastern Economic Review (Hong Kong) 22(14):421-422. April 4, 1957.
Discussion includes notes on recent changes of policy on minimum age at marriage, abortion, and sterilization.

4384 Sauvy, Alfred.
[French family policy.] Fransk familjepolitik. Sociala Meddelanden (Stockholm), No. 3 of 1957. Pp. 152-158. With English and French summaries, pp. 214-216.
A review of recent trends in the French birth rate and an estimate of the effect of the family allowance policy.

4385 Ta Chen.
[Birth control, deferred marriage, and population problems of new China.] The New Reconstruction Monthly (Peking), May, 1957. Pp. 1-16. In Chinese.
The effective means of lowering the birth rate are considered by the author to be birth control and deferred marriage, although this may take some time. Western and Japanese examples are cited. New China should aim toward a planned growth rather than toward decreasing the population or maintaining the present level. Sterilization and abortion are considered inhumane and ineffective. Raising the age at marriage by increasing educational and employment opportunities for women is considered the most hopeful prospect. [Wang Nai-chi]

4386 Wang Chin-shih.
On the problem of birth control. [Translated from Chinese text in] Shih Shih Shou Tse [Current Events], Issue No. 24, Dec. 25, 1956. Pp. 19-31 in: Extracts from China Mainland Magazines (Hong Kong), No. 72, March 4, 1957.
Questions and answers on the meaning and purpose of the present official policy of birth limitation.

[See also Titles 4034, 4082, 4196, 4197, 4202, 4226, 4325]

Policy on Internal Redistribution

4387 Chicago Plan Commission.
A report on relocation: a review of proposals and experiences both national and local with conclusions and recommendations for the City of Chicago. Population and Housing Report No. 2. Chicago, 1956. 33 pp., processed.

4388 Gonçalves Martins, Renato.
[The agrarian question and the problems of the agricultural population; fundamentals of a new land policy.] A questão agrária e o probleme do camponês; fundamentos para uma nova política do campo. Rio de Janeiro, Livraria-Editora da Casa do Estudante do Brasil, [1955]. 116 pp. and folding maps.
Appendix of legal texts includes that of Law 2,163 of Jan. 5, 1954, creating the Instituto Nacional de Imigração; also the regulations of the Instituto.

4389 Lombard, J. A.
The economic development of the South African Bantu areas: a review article. Finance and Trade Review (Pretoria) 2(1):13-30. July-Aug., 1956.
Discussion of the findings and policy recommendations of the Tomlinson report. See 23:Title 1459.

4390 Netherlands. Rijksdienst voor het Nationale Plan.
[Regional planning in the Netherlands.] Raumordnung in den Niederlanden. Published by the Staatsamt für Raumplanung and by the Informationsabteilung des Ministeriums für Wiederaufbau und Wohnungswesen. The Hague, Reichsinformationsdienst der Niederlande, 1955-. Issued also in English and in French.
1. [General introduction.] Allgemeine Einführung.°

4391 Perez Llana, Eduardo A.
[Annotation to the new law on colonization.] Acotaciones a la nueva ley de colonización. Revista de Ciencias Jurídicas y Sociales (Santa Fé, Arg.) 17(82-85):219-231. 1955.°

4392 Pimper, Antonin.
[The future of our cities and villages: problems and objectives of our regionalism.] Budoucnost nasich mest a vesnic; otazky a cile naseho regionalismu. Knihovna Nove Dilo, Sv. 25. [Prague], Nakl. Universum, 1948. 131 pp.°

4393 Switzerland. Département Fédéral de l'Economie Publique.
[Measures by the Confederation in favor

of the mountain population.] Mesures de la Confédération en faveur de la population montagnarde. 62nd supplement to La Vie Economique. Berne, 1956. 64 pp.

Outline of action by Federal and cantonal governments and associations to forestall depopulation of the mountain areas, by direct and indirect subsidies. [I.L.R. 75(4)]

4394 Town Planning Institute.

Report on planning in the London region. London, 1956. 60 pp.

Report of a London Regional Planning Committee of the Institute assessing "the extent to which development in London is being guided by the Regional Plan, and to discover the nature of present difficulties and the reasons for them." Data on population distribution and decentralization are considered in relation to redevelopment. Policy recommendations.

[See also Titles 4021, 4024, 4270, 4276-4280, 4340, 4343]

Policy on International Migration

4395 Commonwealth Club of California.

Pending immigration proposals. Transactions of the..., Vol. LI, No. 2. The Commonwealth 32(10):25-45. March 11, 1957.

Contents include:

Phelan, Arthur J. Report on Section on Immigration.

Mamalakis, Stanley P. In favor of quota law changes.

Berger, David C. In favor of existing quota laws.

4396 Coulter, Eliot B.

Immigration potentials under the basic immigration law. Department of State Bulletin 36(932):722-723. May 6, 1957.

Discusses quantitative estimates of admission in relation to numbers admissible for the principal countries sending emigrants to the United States.

4397 Goodman, Eileen.

Why we can take more immigrants. Canadian Business 30(6):90-98. June, 1957.

Reviews trends in numbers of immigrants and in population size for Canada, 1857-1956, and surveys present economic absorptive capacity.

4398 Reguera Sevilla, J.

[Toward new emigration regulations.] Hacia nuevas normas de emigración. Fomento Social (Madrid), Oct.-Dec., 1955. Pp. 404-422.

"Historical, political, economic and social aspects of Spanish emigration; the necessity for and principles of a new plan." [B.A.D. 10(10)]

4399 Romero Gómez, Manuel.

[Immigration into North America.] Inmigración en Norteamérica. Estudios Americanos (Seville) 7(28):769-777. 1954.

Discusses with reference to the United States the immigration machinery, illegal immigration, restrictive legislation, legislative debates, the MacCarran-Walter law, proposals before Congress, characteristics of the proposed new law, its critics, the working of the law, the Commission of Immigration and Nationality, the new administration confronted with the law, and the Emergency Immigration Act.

4400 U. S. Congress. House. Committee on the Judiciary.

ICEM and land resettlement; resettlement of European migrants in Latin America. Report of Subcommittee No. 1 Pursuant to H. Res. 107, Eighty-Fifth Congress...(85th Cong. 1st sess. House Report No. 203). Washington, Govt. Printing Office, 1957. 79 pp.°

4401 U. S. Department of Justice.

Administrative decisions under immigration and nationality laws. Vol. VI. March 1953-January 1956. Washington, Govt. Printing Office, 1957. XXII, 906 pp.

4402 U. S. President.

Immigration matters; message. 85th Cong., 1st sess. House Doc. 85. Washington, 1957. 5 pp.°

Immigration and nationality laws: message transmitting recommendations relative to our immigration and nationality laws. 84th Cong., 2d sess. House Doc. 329. Washington, 1956. 6 pp.°

[See also Titles 4057, 4223, 4225, 4239, 4240, 4249, 4252, 4256, 4257, 4261, 4388]

Policy on Quality

4403 Heysen, Luis E.

[The problem of the Indian populations.] Las poblaciones indígenas como problema. México, D. F., Organización Regional Interamericana de Trabajadores (ORIT), 1957. 46 pp.

Considers factors in the problem of Indian welfare, the intervention of the Inter-

national Labour Organization and the United Nations, and immediate problems.

4404 International Labour Conference.
Protection and integration of indigenous and other tribal and semi-tribal populations in independent countries. Fortieth Session, Geneva, 1957, Report VI(2). Sixth item on the agenda. Geneva, 1957. 84 pp.
Texts of replies from governments and proposed convention and recommendation.

4405 International Labour Office.
The influx of young people into the employment market in Western and Northern Europe. International Labour Review (Geneva) 75(4):335-353. April, 1957.
A survey of measures taken to facilitate the absorption of the larger maturing age classes into the labor force in Western Germany, Denmark, France, Great Britain, Sweden, and Switzerland.

4406 Legge, J. D.
Australian colonial policy. A survey of native administration and European development in Papua. Published under the auspices of the Australian Institute of International Affairs and the Institute of Pacific Relations. Sydney, Angus and Robertson, 1956. x, 246 pp.
Contains chapter, Native labour, 1906-40.

4407 Rapelli, Guiseppe.
[Occupational training and labor policy (relationship).] Formazione professionale e politica del lavoro (relazione). Atti del Convegno dell'Istituto di Studi Parlamentari. Rome, Arti Graf. Romane, 1956. 63 pp.°

4408 U. S. Library of Congress. Legislative Reference Service.
Studies of the aged and aging: summary of Federal legislation relating to older persons, prepared for the Committee on Labor and Public Welfare, United States Senate, by Frederick B. Arner...December, 1956. Washington, Govt. Printing Office, 1957. vi, 34 pp.°

4409 U. S. Congress. Senate. Committee on Labor and Public Welfare.
Studies of the aged and aging. Selected Documents, Vol. X. Surveys of state and local projects. Compiled by the staff of the Committee..., January 1957. Washington, Govt. Printing Office, 1957. [vi], 144 pp.

[See also Titles 4021, 4034, 4200, 4336]

N. METHODS OF RESEARCH AND ANALYSIS

4410 Curso Centroamericano de Formación Estadística (CCFE).
[Memoranda on population statistics.] Apuntes de estadística demográfica. By Maria Nydia Márquez. San Salvador, 1956. 267 pp.
A manual for use with the class lectures in the Central American Course in Statistics. "This publication includes an introductory explanation of population structure and methods of collecting and processing demographic data, with an explanation and commentary on the recommendations issued by the international agencies on this subject. Following this, dynamic demographic statistics are given special attention in a chapter on the general treatment of the problem of population censuses. There are also given several statistical procedures applicable to the various stages of processing and analyzing census data." [I.A.S.I. 13(52)]

4411 Ghosh, Birendranath.
Enumerational errors in surveys. Calcutta Statistical Association Bulletin 7(26): 51-59. March, 1957.
Discusses distinction between gross and minor errors, replicated or interpenetrating samples, estimating the margin of error, repeated enumeration.

4412 Graffar, Marcel.
[A method of social classification of population samples.] Une méthode de classification sociale d'échantillons de population. Courrier (Paris) 6(8):455-459. 1956.°

4413 Ivanović, B.
[A project for the classification of districts of the FPRY according to their degree of economic development.] Projekat za klasifikaciju srezova FNRJ prema stepenu ekonomske razvijenosti. Statistička Revija (Belgrade) 6(4):287-297. Dec., 1956. With French summary.
Application of the Mahalanobis measure of generalized distance to a hypothetical case.

4414 Lah, Ivo.
[Analytical graduation of empirical summation functions.] Analytische Ausgleichung empirischer Summenfunktionen. Instituto dos Actuários Portugueses, Boletim (Lisbon), No. 12, Dec., 1956. Pp. 17-40. With English abstract.
A method of graduating data on fertility and nuptiality by age, illustrated by using

data from the Yugoslavian census of 1948 and the Brazilian census of 1940.

4415 Pan American Union. Departamento de Asuntos Culturales. Oficina de Ciencias Sociales.

[Guide to the field of social studies. First part: social anthropology.] Guia de campo del investigador social. Primera parte: antropología social. Primer fascículo. Manuales Técnicos, III. Washington, 1956. xiv, 102 pp.

Prepared by a committee of the Royal Anthropological Institute of Great Britain and Ireland. Chapter on methods has section on demography. Chapter on social structure deals with areal distribution, age, sex, family, kinship, descent and clanship, social stratification. Chapter on social life of the individual includes sections on the life cycle from conception to matrimony and on matrimony.

4416 Porter, R.

Approach to migration through its mechanism. Geografiska Annaler (Stockholm) 38(4):317-343. 1956.°

4417 Strumilin, S. G.

[Statistics.] Statistika. Moscow, Gosstatizdat, 1956. 568 pp.°

4418 United Nations. Statistical Commission.

Report of the...on its ninth session (April-May 1956). [New York], May, 1956. 30 pp.

Includes section on population statistics. [I.S.S.B. 9(1)]

4419 Walsh, John E.

A Monte Carlo technique for obtaining tests and confidence intervals for insurance mortality rates. Pp. 265-277 in: Symposium on Monte Carlo methods, University of Florida, 1954. New York, John Wiley and Sons; London, Chapman and Hall, 1956.°

4420 Washington Statistical Society.

Improving the quality of statistical surveys: papers contributed as a memorial to Samuel Weiss. Sponsored by the Washington Statistical Society in collaboration with the American Statistical Association. Washington, distributed by the American Statistical Association, 1956. ii, 95 pp.

Partial contents:

Haenszel, W., et al. A proposed study for extending the scope and improving the quality of mortality data.

Woolsey, T. D., and Nisselson, H. Some problems in the statistical measurement of chronic disease.

[See also Titles 4006, 4007, 4012, 4014, 4015, 4029, 4031, 4032, 4035, 4038, 4039, 4043, 4045, 4047, 4051, 4052, 4054, 4060, 4067, 4101, 4106, 4116, 4119, 4145, 4161, 4163, 4165, 4188, 4266, 4270, 4281, 4287, 4296, 4306, 4312, 4332, 4349, 4360, 4431, 4486]

O. ORGANIZATION & ADMINISTRATION

Registration of Vital Statistics

4421 Borzhykh, A.

[Registries of vital records.] Sotsial'noe Obespechenie (Organ of the Ministry of Social Security of the U. S. S. R., Moscow) 18(1):54. Jan., 1957. In Russian.°

4422 Dragvoll, Rolf.

Activities and organization of the Central Bureau of Statistics of Norway. Statistisk Sentralbyrå (Norge). Virksomhet og organisasjon. Statistisk Tidskrift (Stockholm) 6(3):119-125. March, 1957. With English summary, p. 182.

Notes on history, present administration, and publications.

4423 El Salvador. Dirección General de Estadística y Censos.

Informe sobre las labores de la Dirección General de Estadística y Censos de El Salvador. Documento Informativo, No. 1, 1956.°

4424 Hüfner, Willi.

[The further development of the cause-of-death statistics after World War II.] Weiterentwicklung der Todesursachenstatistik nach dem 2. Weltkriege. Allgemeines Statistisches Archiv (Munich) 40(2):154-159. 1956.

A discussion of the statistics on complex causes of death, and German experiences with a new form of the post-mortem certificate.

4425 Inter American Statistical Institute; Pan American Union.

[Statistical activities of the American Nations, No. 5. Colombia.] Actividades estadísticas de las naciones americanas, No. 5. Colombia. By Jorge Sáenz Olarte. 2nd ed. Washington, 1956. vi, 68 pp., processed. With English summary.

Chapters deal with fundamental legislation and administrative organization, cen-

suses, continuing statistics (geographical, demographic, economic, health and culture, governmental and political, labor and living conditions), participation in international activities, statistical education. Appendixes include bibliography of principal statistical publications.

4426 Jiménez Jiménez, Ricardo.
[The correctness of birth registration and some demographic analyses of Costa Rica.] Exactitud del registro de nacimientos y algunos analisis demográficos de Costa Rica. San José, Dirección General de Estadística y Censos, 1957. 24 pp.
Analysis of birth data based on comparison between age distributions reported in 1950 census and those based on birth registration statistics. Adjusted estimates are given for the years 1950-1954.

[See also Titles 4012, 4158, 4209, 4410, 4429, 4434, 4469]

Population Censuses and Registers

4427 Beale, Calvin L.
Farm populations as a useful demographic concept. Agricultural Economics Research 9(3):105-111. July, 1957.
Discusses the history of the census definitions and special problems revealed by a comparison of the characteristics of U. S. population by residence groups in 1950 (urban, rural nonfarm, open-country nonfarm, rural farm). Weighs advantages and disadvantages of present definitions and of alternatives proposed, concluding, "The method now used to identify these people in the census has conceptual imperfections, but for most purposes these imperfections are tolerable and are offset by the economic and operational superiority of the definition over its possible alternatives."

4428 Buhrow, Kurt.
[Conference of the Association of German City Statisticians, November 27 and 28, 1956, at Essen.] Tagung des Verbandes Deutscher Städtestatistiker am 27. und 28. November 1956 in Essen. Allgemeines Statistisches Archiv (Munich) 40(4):387-395. 1956.
Papers and discussion on the housing census and the world census of 1960 were included in these meetings.

4429 France. Institut National de la Statistique et des Etudes Economiques; Ministère de la France d'Outre-Mer, Service des Statistiques.
[The population censuses in the oversea territories (methodological study).] Les recensements démographiques dans les pays d'outre-mer (étude méthodologique). Bulletin Mensuel de Statistique d'Outre-Mer, Supplément Série Etudes, No. 35, Jan., 1957. 162 pp.
A description and evaluation of past and present methods employed in the taking of censuses and statistics of marital status (1) in the oversea territories other than Algeria, Tunisia, and Morocco, and (2) in the latter. Specimen forms and tabular indication of information available. Bibliography.

4430 Henripin, Jacques.
[The census divisions of Canada from 1871 to 1951: a method permitting areal comparisons.] Les divisions de recensement au Canada de 1871 à 1951, méthode permettant d'en uniformiser les territoires. Ecole des Hautes Etudes Commerciales de Montréal, Service de Documentation Economique, Etude No. 9. Montreal, 1956. 60 pp.°

4431 Herberger, Lothar.
[The sample census as a new instrument for the gathering of socio-economic data.] Der Mikrozensus als neues Instrument zur Erfassung sozial-ökonomischer Tatbestände. Wirtschaft und Statistik (Stuttgart) 9(4):209-212. April, 1957.
Describes the goals of the Mikrozensus (current population survey) for which the necessary legislation was passed on March 16, 1957; the organization of the regular survey; possibilities and limits for supplementary questions; potential use for sociological studies.

4432 Inter American Statistical Institute.
[Censuses of the American nations: balance sheet of the programs and special information on the results of the censuses of population (including illiteracy) and of agriculture and livestock.] Censos de las naciones americanas: alcance de los programas e informaciones especiales sobre los resultados de los censos de población (incluso analfabetismo) y agropecuario. Estadística (Washington) 14(52):485-502. Sept., 1956.
Analysis of coverage by country and lists of principal sources under the relevant heads available in the secretariat of the IASI.

4433 Marshall, H.
The 1956 Canadian census. Canadian Journal of Public Health 48(1):1-6. Jan., 1957.°

4434 Szu Keng-sheng.
Several questions for discussion and study on the statistics of China's population. [Translated from Chinese text in] Tung Chi Kung Tsou [Statistical Bulletin], Issue No. 5, March 14, 1957. Pp. 17-19 in: Extracts from China Mainland Magazines (Hong Kong), No. 78, April 15, 1957.

A critical view of Chinese population statistics, with recommendations for improvements in the following areas: (1) more adequate data on numbers, composition, and growth rates in pre-liberation days, for purposes of comparison; (2) better information on post-liberation rates of net increase and of the differential between urban and rural rates; (3) greater promptness and accuracy in compilation of annual reports on changes in census registration records and consideration of supplementing them by selective or typical sample surveys; (4) evaluation of the 1953 census experience (organization, administration, summing up of results, scheduling of publication) and comparison with other countries' experience, to improve the quality of future enumerations.

[See also Titles 4029, 4126, 4158, 4281, 4282, 4312, 4354, 4410, 4420, 4422, 4423, 4425, 4498]

Other Data Collecting and Processing

4435 Kramer, Morton.
Collection of mental disease statistics in the United States. Estadística (Washington) 14(52):449-459. Sept., 1956. With Spanish summary.

Indicates the "problems encountered and the steps taken by the National Institute of Mental Health...to improve the United States' national statistics on hospitalized mental disorders and to initiate the gathering of mental hygiene clinic statistics on a nationwide basis...."

4436 U. S. Public Health Service. Division of Public Health Methods.
The National Health Survey Act; organization of the National Health Survey. Public Health Reports, Reprint No. 3287. Vol. 72, No. 1. Washington, Jan., 1957. 8 pp. and specimen form.

Describes the historical background, purpose, and program of the first national survey since 1935-36.

4437 Whitaker, Philip.
The preparation of the register of electors in the Western Region of Nigeria, 1955-56. Journal of African Administration 9(1): 23-29. Jan., 1957.

Description of methods employed and data collected in the initial political registration of nearly two million electors in a population with a literacy rate of 6.6 per cent.

[See also Titles 4420, 4423, 4425, 4434, 4486]

P. PROFESSIONAL MEETINGS AND CONFERENCES

4438 Almagià, Roberto.
The activity of the Italian Council of Research in the field of geographical studies [in the three years 1954-56]. L'attività del Consiglio nazionale delle ricerche nel campo degli studi geografici nel triennio 1954-56. La Ricerca Scientifica (Rome) 27(4): 1069-1077. April, 1957. With French, English, and German summaries.

4439 Almagià. Roberto.
Research Center of Anthropogeography. [Current activity in the years 1955-56.] Centro di studio per la geografia antropica. Attivita svolta negli anni 1955-56. La Ricerca Scientifica (Rome) 27(3):685-686. March, 1957. With French, English, and German summaries.

Notes on publications and work in progress.

4440 Bendiksen, Bjørnulf.
[The United Nations Population Commission: 9th session.] De Förente Nasjoners Befolkningskommisjon: 9. Samling. Statistisk Tidskrift (Stockholm) 6(5):229-232. May, 1957.

4441 Boustedt, Olaf.
[The 27th annual meeting of the German Statistical Society, November 28-30, 1956, at Essen.] Die 27. Jahresversammlung der Deutschen Statistischen Gesellschaft vom 28. bis 30. November 1956 in Essen. Allgemeines Statistisches Archiv (Munich) 40(4):371-380. 1956.

The seminar on regional statistics included discussions on the minimum program for population and cultural statistics, and on the cartographic presentation of population density.

4442 Institut de Génétique Médicale à la Clinique Ophtalmologique Universitaire de Genève.
[Report of the....] Rapport. L'Institut.... Journal de Génétique Humaine (Geneva) 5(1):84-85. 1956.

"This Institute records systematically

all known hereditary and congenital diseases in Swiss families; also studies twins...and gives genetic counseling service. Isolated consanguineous populations, and accurate, continuous parish records of pedigrees, unaffected by wars, are Swiss assets in the study of human genetics." [B.A. 31(7)]

4443 United Nations.
Asia and the Far East seminar on population, Bandung, 21 November to 3 December, 1955, organized by the United Nations in cooperation with the Government of Indonesia, with the collaboration of the International Social Science Council. ST/TAA/SER.C/26. 6 Feb. 1957. Sales No.: 1957. II.H.1. New York, 1957. iv, 68 pp., processed.

Summary of the deliberations of the various sessions and conclusions as to recommendations of additional needs for information and research. Annex II gives a list of background documents distributed to participants.

[See also Titles 4014, 4015, 4023-4025, 4029, 4030, 4038, 4220, 4225, 4270, 4321, 4404, 4418, 4420, 4428, 4446]

Q. BIBLIOGRAPHIES

4444 American Medical Association. Council on Medical Service.
Bibliography on health economics and related material. Prepared by Brookings Institution. [Chicago and Washington, 1956.] In 5 parts (9 sections) variously paged. Processed.

Bibliographies assembled at Brookings Institution in connection with studies made in the period 1948-1956. Each section is indexed alphabetically only.

Partial contents:

III. Services and related material. Selected groups of persons. A. Children and mothers and schools. [ii], 20 pp. B. Government beneficiaries. [ii], 23 pp. C. Industry and labor. [ii], 23 pp. D. Rural population and migrants. [ii], 8 pp.

IV. Population, vital statistics, and related material. [ii], 39 pp.

V. General background. [ii], 16 pp.

4445 Centro Interamericano de Bioestadística.
[Bibliography of works on demography in Latin America.] Bibliografía de obras sobre demografía en América Latina. Santiago, Chile, 1955. 19 pp.

Contains sections on census methods; estimates or computations of population; structure or composition — descriptions of population; mortality; fertility; probability; growth. [I.A.S.I. 14(52)]

4446 Comas, Juan.
History and bibliography of the international congresses of anthropological sciences, 1865-1954.] Historia y bibliografía de los congresos internacionales de ciencias antropológicas: 1865-1954. Universidad Nacional Autónoma de México, Publicaciones del Instituto de Historia, 1. ser., núm. 37. México, D. F., Dirección General de Publicaciones, 1956. 490 pp.°

4447 Daland, R. T.
Political science and the study of urbanism. American Political Science Review 51(2):491-509. June, 1957.

A retrospective bibliographical article on urban government, including recent work, classified in the following categories: general works including texts, history, municipal reform, law, governmental structure, politics, and management. "Within each of these categories the treatment is basically chronological. A final section discusses selected items considered highly relevant to urban government from such fields as sociology, economics, geography, planning, and engineering." Problems in the definition, description and administration of metropolitan areas are included.

4448 Field, Henry.
Bibliography on Southwestern Asia: IV. A fourth compilation. Coral Gables, University of Miami Press, 1957. xlvi, 464 pp.

Section on anthropogeography (Nos. 1-8304) includes items on population problems, migration and settlement, medicine, arranged alphabetically by author.

4449 Getting, Vlado A.
The medical officer's bookshelf on epidemiology and evaluation. Part II. Evaluation. American Journal of Public Health and the Nation's Health 47(4):409-413. April, 1957.

A special review article. See also Title 4450, this issue.

4450 James, George, and Greenberg, Morris.
The medical officer's bookshelf on epidemiology and evaluation. Part I. Epidemiology. American Journal of Public

Health and the Nation's Health 47(4):401-408. April, 1957.

A special review article. See also Title 4449, this issue.

4451 Middle East Institute.

Current Research on the Middle East, 1956. Washington, D. C., [1957]. 90 pp.

"This volume is a continuation of the annual survey, initiated last year, of research on the Middle East being carried on by scholars in the United States and Canada, Great Britain, Europe, and the Middle East." [C.G.P. 20(4)]

4452 New York. State Library.

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"Published in pamphlet form first in May, 1937."

4453 Perloff, Harvey S., Editor.

Regional studies at U. S. universities. A survey of regionally oriented research and graduate education activities. Washington, Resources for the Future, Inc., May, 1957. viii, 118 pp., processed.

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4454 Reckers, Stephanie.

[Population and population development in Westphalia in publications of the years 1943-1954.] Bevölkerung und Bevölkerungsentwicklung in Westfalen im Schrifttum der Jahre 1943-1954. Westfälische Forschungen (Münster) 8:219-227. 1955.°

4455 Rossiiskii, D. M.

[History of general and Russian medicine and public health; a bibliography (996-1954).] Istoriia vseobshchei i otechestvennoi meditsiny i zdravo-okhraneniia; bibliografiia (996-1954 gg.). Edited by B. D. Petrova, compiled and annotated with the aid of V. A. Nevskogo. Moscow, Gos. Idzvo Med-lit-ry, 1956. 935 pp.°

4456 Salinari, Emiliani M.

[Bibliography of writings on urban geography (1945-54).] Bibliografia degli scritti di geografia urbana (1945-54). Memorie di Geografia Antropica, Vol. XI. Rome, Consiglio Nazionale delle Ricerche, Centro di Studio per la Geografia Antropica, 1956.°

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4457 Tumin, Melvin M.

Segregation and desegregation: a digest of recent research. New York, Anti-Defamation League of B'nai B'rith, 1957. 112 pp.

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4458 U. S. Library of Congress. Hispanic Foundation.

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[See also Titles 4025, 4037, 4101, 4195, 4299, 4330, 4422, 4429, 4432, 4443, 4465]

R. NEW PERIODICALS

4459 Midwest Conference of Political Scientists.

Midwest Journal of Political Science. Published for the...by Wayne State University Press, Detroit, Mich. Vol. 1. No. 1. May, 1957.

4460 Panama. Consejo Nacional de Economía.

Boletín del.... Panamá. Vol. 1. No. 1. Aug.-Oct., 1955.°

S. OFFICIAL STATISTICS

NORTH AMERICA

Canada

4461 Canada. Dominion Bureau of Statistics.

Census of Canada, 1956. Ottawa, Queen's Printer, 1957 . With duplicate text in French.

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[Plan of publication]:

Population — General characteristics. Bulletins 1-1 to 1-12. [No. 1-12 was issued Aug. 8, 1957.]

1-1. Electoral districts. By counties and subdivisions, 1956 and 1951. 96 pp.
1-2. Counties and subdivisions. By sex, Nfld., P.E.I., N.S., and N.B., 1956 and 1951. 8 pp.
1-3. Counties and subdivisions. By sex, Quebec, 1956 and 1951. 16 pp.
1-4. Counties and subdivisions. By sex, Ontario, 1956 and 1951. 12 pp.
1-5. Census divisions and subdivisions. By sex, Man., Sask., Alta., B.C., Yukon and N.W.T., 1956 and 1951. 16 pp.
1-6. Incorporated cities, towns and villages. (With guide to locations): metropolitan and other major urban areas, 1956 and 1951. 28 pp.
1-7. Rural and urban distribution. Rural farm, rural non-farm and urban population, by sex, for provinces and counties, 1956. 16 pp.
1-8. Sex ratios. Population by sex (showing proportions of males to females), for provinces, counties, municipalities of 10,000 and over, and metropolitan areas, 1956. 8 pp.
1-9. Age groups. Five-year age groups and sex, for provinces, counties, municipalities of 10,000 and over, and metropolitan areas (by specified age groups), 1956. 64 pp.
1-10. Single years of age. By sex, for provinces, 1956. 12 pp.
1-11. Marital status. By sex, for provinces, counties, municipalities of 10,000 and over, and metropolitan areas, 1956. 44 pp.
1-12. Marital status by age groups. By sex, for provinces, municipalities of 30,000 and over, and metropolitan areas, 1956. 32 pp.

Households and families. Bulletins 1-13 to 1-20. [No. 1-17 was issued July 26, 1957.]

1-13. Households by size.... 44 pp.
1-14. Household composition.... 24 pp.
1-15. Households by characteristics of head.... 24 pp.
1-16. Families by size.... 40 pp.
1-17. Family composition.... 32 pp.
1-18. Families by type.... 32 pp.
1-19. Families by characteristics of head.... 28 pp.
1-20. Household and family status of individuals.... 28 pp.

Reference maps. Bulletin 1-21. Reference maps. Provinces, counties, and subdivisions, metropolitan and other major urban areas. 60 pp. [Issued July 10, 1957.]

Agriculture. Bulletins 2-1 to 2-11 [a series of ten provincial reports and a summary report for Canada] and Reports A-1, A-2, A-3, A-4 [issued in advance of the provincial reports to make some of the data available at an earlier date]. [Report A-4 was issued July 12, 1957.]

Analytical reports. Reports 3-1, 3-2, etc. ["...will consist of analyses of the statistics in the earlier series. The subjects to be covered will include: Growth of Population, Rural and Urban Distribution, Age Composition, Marital Status, Households and Families, and Agriculture."]

4462 Canada. Dominion Bureau of Statistics. Health and Welfare Division.

Causes of stillbirth 1943-55. Reference Paper No. 79. Ottawa, Queen's Printer, 1957. 16 pp., processed.

Tables and note on coverage. Data by provinces, except Newfoundland, Yukon and Northwest Territories.

[See also Title 4433]

Dominican Republic

4463 Dominican Republic. Dirección General de Estadística.

Estadística demográfica, 1954. Ciudad Trujillo, 1956. 102 pp.°

French West Indies

4464 France. Institut National de la Statistique et des Etudes Economiques.

[Statistical results of the general population census of the overseas departments carried out July 1, 1954. French Antilles: Martinique and Guadeloupe.] Résultats statistiques du recensement général de la population des départements d'outre-mer effectué le 1er juillet 1954. Antilles françaises: Martinique et Guadeloupe. Paris, Imprimerie Nationale and Presses Universitaires de France, 1956. 300 pp.

United States

4465 U. S. Bureau of the Census.

Current Population Reports. Series P-28. Special censuses. Special census of [specified city or area]. Washington, 1947-. See 21:Titles 1295 and 4512 for description of special censuses.

No. 1022. Special censuses conducted by the Bureau of the Census between January 1, 1957, and March 31, 1957. June 26, 1957. 3 pp.

4466 New York. State Department of Health. Office of Vital Statistics.

Basic vital statistics, New York State (exclusive of New York City) 1900-1956. 3rd ed., rev. 1957. Albany, 1957. 44 pp., processed.

4467 U. S. National Office of Vital Statistics.

Monthly Vital Statistics Report. Provisional statistics on births, marriages, divorces, and deaths for [month], with data on causes of death for [preceding month].

Vol. 5, No. 13. Annual summary for 1956. Part 1. Provisional vital statistics for the United States. March 12, 1957. 8 pp. Idem. Part 2. Estimated numbers of deaths and death rates for selected causes: United States, 1956. May 10, 1957. 27 pp.

Vol. 6, No. 6, for August 1957, was issued Aug. 15, 1957. 8 pp.

4468 U. S. National Office of Vital Statistics.

Vital statistics of the United States 1955. Vol. II. Mortality data. Washington, Govt. Printing Office, 1957. [vi], 518 pp., processed.

4469 U. S. National Office of Vital Statistics.

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Nos. 1-9. See 23:Title 2496.

No. 10. Weight at birth and its effect on survival of the newborn: United States by geographic divisions and by urban and rural areas, early 1950. By Jeanne Unger. April 30, 1957. Pp. 153-218.

No. 11. National vital statistics needs: a report of the United States National Committee on Vital and Health Statistics. June 5, 1957. Pp. 219-270. ["The Committee was requested by the U. S. Public Health Service to make a comprehensive study of the objectives and the program of national vital statistics, to report its findings, and to make recommendations for the future development of the program. It was asked, also, to undertake a special study of the needs for marriage statistics and the extent to which existing data satisfy these needs." Recommendations include improvements in registration and coordination techniques as well as in coverage and analysis.]

4470 U. S. National Office of Vital Statistics.

Vital Statistics — Special Reports. Vol. 46. National summaries [1955]. Washington, 1956-.

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No. 4. Divorces and annulments: detailed statistics for reporting areas, 1955. April 9, 1957. Pp. 89-108.

No. 5. Mortality from selected causes, by age, race, and sex: United States, 1955. May 6, 1957. Pp. 109-160.

No. 6. Mortality from selected causes: United States and each state, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U. S.), 1955. May 9, 1957. Pp. 161-188.

No. 7. Marriages: detailed statistics for reporting areas, 1955. May 26, 1957. Pp. 189-224.

No. 8. Leading causes of death: United States and each state, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U. S.), 1955. June 28, 1957. Pp. 225-258.

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4471 U. S. Bureau of the Census.

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No. 75. Household and family character-

istics: March 1956. June 9, 1957. 15 pp.
No. 76. Households and families, by type: 1950 to 1957. July 5, 1957. 4 pp.

4472 U. S. Bureau of the Census.
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No. 75. Women past thirty-five in the labor force: 1947 to 1956. July, 1957. 19 pp.

4473 U. S. Bureau of the Census.
Current Population Reports. Series P-57. Labor force. The monthly report on the labor force.... Washington, 1947-.
No. 180, for June 1957, was issued in July. 16, 3 pp. ["Starting with June 1957, a seasonally adjusted rate of unemployment is being presented...and seasonally adjusted levels of employment and unemployment are charted...."]

4474 U. S. Bureau of the Census.
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No. 24. Family income in the United States: 1955. April, 1957. 23 pp.
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[See also Title 4452]

SOUTH AMERICA

Brazil

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[Sixth general census of Brazil, 1950. Regional series.] VI recenseamento geral do Brasil, 1950. Série Regional. [In 44 volumes.] Rio de Janeiro, 1954-.
Vol. XXIX. Estado de Mato Grosso. Censos demográficos e econômicos. 1956. LXXVI, 378 pp. and specimen form.
For citations to volumes previously issued, see 23:Title 3487.

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See Title 4283.

Surinam

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[Second general census of population, Surinam 1950. The socio-economic and cultural inquiry. Series E. Housing and household census.] Tweede algemeene volkstelling, Suriname 1950. Het sociaal-economisch en cultureel onderzoek. Serie E. Woning- en gezinstelling. Welvaartsfonds Suriname, 1956-.
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For citations to volumes previously issued, see 23:Title 2505.

EUROPE

Bulgaria

See Title 4081.

Denmark

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Introductory notes on classifications. Tables give data by industrial divisions, major industrial groups, and area (whole country, administrative divisions, towns over 20,000).

Finland

4478 Finland. Tilastollinen Päätoimisto.
1950 population census. Vuoden 1950 yleinen väestölaskenta. Suomen Virallinen Tilasto VI. Väestötilastoa C 102. Helsinki, 1955-. With titles in Swedish and English.
Vols. I-IV. See 23:Title 1554.
Vol. V. [Population according to occupations and occupational training.] Väestö ammatin sekä ammatillisen koulutuksen mukaan.°
Vol. VI. Properties and buildings. Kiinteistö ja rakennuskanta. 1957. 84 pp. and specimen forms.

France

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Hungary

4479 Hungary. Kozponti Statisztikai Hivatal.
[Hungarian statistical handbook, year 1956.] Magyar statisztikai zsebkonyv, [1956]. Budapest, 1956. 228 pp.°

Lithuania

See Title 4130.

Netherlands

4480 Netherlands. Centraal Bureau voor de Statistiek.

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Textual summary, tables, maps.

Poland

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Switzerland

4481 Switzerland. Eidgenössisches Statistisches Amt.

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For volumes already cited, see 23:Title 3494.

Band 25. [Switzerland. Tables, part II.] Schweiz. Tabellenteil II. Suisse. Tableaux. IIme partie. 1957. 434 pp. [The second of the final volumes of the 1950 census covers the resident population according to branch of economic activity, individual occupation, occupational status, and accessory occupations. It also lists additional tables that could not be included in the volume but may be consulted at the Federal Statistical Office.]

United Kingdom

4482 Great Britain. General Register Office, England and Wales.

Census 1951, England and Wales. London, H. M. Stationery Office, 1952-.

Industry tables. 1957. xiv, 648 pp. and specimen form. [These tabulations from the full data replace those from a sample given in the Census 1951, Great Britain, One per cent sample tables, published in 1952. See 19(1):Title 159. For citations to subsequently issued parts of the census see 23:Title 3495.]

Yugoslavia

See Title 4193.

U. S. S. R.

4483 Merkov, A. M.

Some demographic and health statistics on the U. S. S. R. Gigiena i Sanitaria (Moscow) 22(1):6-12. Jan., 1957. In Russian with English summary.°

4484 U. S. S. R. Statisticheskoe Upravlenie. R. S. F. S. R.

[The national economy of the R.S.F.S.R.: a statistical compilation.] Narodnoe khozîaĭstvo RSFSR: statisticheskiĭ sbornik. Moscow, Gosudarstvennoe Statisticheskoe Izdatal'stvo, 1957. 372 pp.

Gives estimates for 1956 or 1957 for the total, urban and rural population of the R.S.F.S.R. and for the constituent republics, krays and oblasts, for each town and urban settlement of more than 50,000, and for the capitals of the major and secondary administrative areas. Also numerical data on territorial changes and densities and on labor force, with retrospective comparisons. Other data on economic indices, governmental structure, investment, and output.

[See also Titles 4087, 4314, 4421]

ASIA

Burma

4485 Burma. Census Division.

Advance publications, 1954 census stage: Kachin State population: Kachin State households. Advance Release, No. 3. [Rangoon, 1956.] 2, 2 pp. and 14 tables, processed.

Idem. Supplement to Advance Release, No. 3. Ibid., n.d. 1 p. and 2 tables, processed.

Data presented for small districts on households, place of birth, religion, age, marital status, race, literacy, language, schooling, occupations, economic activities, employment status, number of children born alive per ever married woman, classified by race, age, and number of children still alive.

For citation to previous release, see 23: Title 1568.

4486 Burma. Directorate of Labour.

Sample survey of labour force in Rangoon: a study in methods. By John C. Koop. Rangoon, Supt. Union Govt. Printing and Stationery, 1955. [iii], 101 pp. and 2 folding tables.°

China, Republic

4487 China. [National Government.] Directorate-General of Budgets, Accounts and Statistics.

Statistical abstract of the Republic of

China, 1956. [Taipei, 1957.] ix, 594 pp. In Chinese with English titles. [Presents population estimates, drawn from National Government sources, for numbers, total and by sex, with density ratios for localities of mainland China, end of 1953; geographical distribution of overseas Chinese, 1955; number of persons naturalized and "denaturalized." Similar data on Taiwan.]

Statistical abstract of the Republic of China, 1955. [Taipei, 1956.] [ix], 528 pp. In Chinese with English titles. [The first volume in this series to have appeared since that for 1947.]

See also Title 4134, this issue.

China, People's Republic

See Title 4129.

Cyprus

4488 Cyprus. Financial Secretary's Office. Statistics Section.

Cyprus: vital and migration statistics 1956. Nicosia, Govt. Printing Office, 1957. ix, 75 pp., processed.

New data include figures on civilian emigrants and immigrants by sex and country, age group, occupation and ethnic group; also projections of civilian population annually 1956-1961, with notes on method followed.

India

4489 India. Office of the Registrar General.

Census of India. Papers of 1955. Delhi, Manager of Publications, 1956.

No. 1. See 23:Title 1570.

No. 2. See 22:Title 2544.

No. 3. Economic classification by age groups — 1951 census: Uttar Pradesh. [v], vii, 350 pp.°

No. 4. Economic classification by age groups — 1951 census: Mysore. [v], 200 pp.°

4490 India. Office of the Registrar General.

Census of India. Papers of 1956. Delhi, Manager of Publications, 1956.

For citations to Nos. 3, 4, 5, and 9 see 23:Title 2520.

No. 2. Means of livelihood and industries tables. 1941 census, on Y-sample. Bihar. [iii], 91 pp.°

No. 7. Means of livelihood and industries tables. 1941 census, on Y-sample. Bombay. [iii], 111 pp.°

4491 India. Ministry of Labour.

Agricultural labour enquiry: report on intensive survey of agricultural labour employment, underemployment, wages and levels of living. Delhi, Manager of Publications, Civil Lines, 1955.

Vol. I. For citation see 23:Title 3499.

Vol. II. North India. xiv, 120 pp.

Vol. III. East India. xvi, 330 pp.

Vol. IV. South India. xiv, 234 pp.

Japan

4492 Japan. Bureau of Statistics.

Population census of 1950. Special report: fertility of Japanese women. Tokyo, 1957. II, 254 pp. In Japanese with English titles and text.

"...represents the results of the special tabulation on fertility based on three percent sample drawn out of the schedules of the Population Census...." Tables show for all Japan, shi, gun, 8 major regions, and 6 big cities the number of married women, by age and number of children ever borne, classified according to: duration of marriage; duration of marriage and education of husband; tatami size group (i.e. size of living area in dwellings); labor-force status of husband; labor-force status of woman.

Nepal

4493 Nepal. Department of Statistics.

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[See also Title 4429]

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STATISTICS

COMPLETE EXPECTATION OF LIFE ($\mathring{e}_x$) AT VARIOUS AGES IN SELECTED COUNTRIES /1

These figures are the most recent available since 1939 and are, with some exceptions, for countries with populations of 500,000 or more. No adjustment has been made for deficiencies, which in some cases may be serious. Unless otherwise noted the figures were taken from publications of the United Nations Statistical Office, which present mainly data officially submitted by governments.

Country	Years	Sex	Age					
			0	1	10	20	40	60
North America								
Canada /a /2	1955	M	67.6	69.0	60.7	51.3	32.8	16.5
		F	73.0	74.0	65.5	55.8	36.7	19.3
Costa Rica /3	1949-51	M	54.65	59.97	55.59	46.50	29.70	14.85
		F	57.05	61.58	57.22	48.00	31.21	15.84
El Salvador.....	1949-51	M	49.94	54.31	52.85	44.48	30.24	16.94
		F	52.40	56.35	54.99	46.50	31.53	17.40
French West Indies/b/4	1951-55	M	55.4	58.1	52.1	42.8	26.4	13.8
		F	59.2	61.4	55.4	46.1	30.3	16.5
Guatemala	1949-51	M	43.82	48.28	48.56	41.08	26.86	14.73
		F	43.52	47.17	47.68	40.27	26.94	14.26
Haiti /5	1950	M/F	32.61	38.37	38.87	34.41	24.38	15.54
Jamaica (ex. dep.).....	1950-52	M	55.73	59.85	54.46	45.26	28.63	14.30
		F	58.89	62.42	56.68	47.74	31.45	16.49
Mexico /6	1950	M	46.67	52.35	51.12	42.73	28.24	15.32
		F	49.85	54.92	54.36	45.80	30.38	15.96
Panama /c	1941-43	M	50.54	54.13	50.10	41.91	27.26	14.62
		F	53.46	56.58	52.48	44.28	30.15	16.38
Trinidad and Tobago..	1954	M	59.56	63.60	55.97	46.48	28.85	14.13
		F	62.34	65.78	57.96	48.66	31.92	16.83
U.S., Continental /7...	1949-51	M	65.47	66.73	58.35	48.92	30.79	15.68
		F	70.96	71.84	63.38	53.73	35.06	18.50
Whites /7.....	1955	M	67.3	68.2	59.6	50.1	31.7	16.0
		F	73.6	74.2	65.6	55.8	36.7	19.3
Nonwhites /7	1955	M	61.2	63.2	54.9	45.5	28.6	15.4
		F	65.9	67.5	59.2	49.6	32.0	18.1
South America								
Argentina	1947	M	56.9	61.7	54.7	45.6	28.2	13.8
		F	61.4	65.7	58.7	49.6	32.4	16.5

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
South America (cont.)								
Chile	1952	M	49.84	56.83	51.39	42.67	27.25	13.99
		F	53.89	60.62	55.71	47.08	31.33	16.42
Venezuela /8	1941-42	M	45.83	51.24	48.19	39.92	26.21	14.00
		F	47.55	52.48	49.65	41.59	28.49	15.80
Europe								
Austria	1949-51	M	61.91	65.90	58.02	48.68	30.74	15.12
		F	66.97	70.09	62.15	52.62	34.20	17.27
Belgium	1946-49	M	62.04	65.25	57.36	48.02	30.61	15.45
		F	67.26	69.72	61.71	52.27	34.20	17.45
Denmark (ex. Faeroes)	1946-50	M	67.75	69.95	61.73	52.20	33.81	17.11
		F	70.14	71.66	63.29	53.62	35.00	17.88
Finland	1951-53	M	62.89	64.27	56.15	46.67	28.94	13.94
		F	69.12	70.41	62.08	52.46	33.93	16.75
France	1950-51	M	63.6	66.1	57.9	48.4	30.4	15.1
		F	69.3	71.2	63.0	53.4	35.0	18.1
Germany								
Democratic Republic	1952-53	M	65.06	68.18	60.12	50.66	32.31	15.99
		F	69.07	71.40	63.22	53.59	34.99	17.75
Federal Republic	1949-51	M	64.56	67.80	59.76	50.34	32.32	16.20
		F	68.48	71.01	62.84	53.24	34.67	17.46
Hungary*	1955	M	64.74	68.29	60.09	50.62	32.27	15.88
		F	68.69	71.43	63.19	53.51	34.73	17.49
Ireland	1945-47	M	60.47	64.38	56.89	47.77	30.60	15.12
		F	62.43	65.46	57.90	48.84	32.10	16.41
Netherlands /9	1953-55	M	71.0	71.8	63.4	53.7	34.8	17.8
		F	73.9	74.3	65.7	56.0	36.7	18.9
Norway	1946-50	M	69.25	70.70	62.63	53.25	35.16	18.39
		F	72.65	73.56	65.24	55.64	36.96	19.45
Poland /10	1952-53	M	58.6	64.3	56.8	47.6	30.1	14.7
		F	64.2	69.0	61.4	52.0	34.0	17.3
Portugal	1949-52	M	55.52	60.98	56.13	47.02	30.26	15.12
		F	60.50	65.64	60.97	51.83	34.45	17.66
Spain	1940	M	47.12	52.37	48.55	39.97	25.36	12.43
		F	53.24	58.83	55.49	46.96	30.66	15.20
Sweden	1946-50	M	69.04	69.92	61.62	52.14	33.84	17.05
		F	71.58	72.08	63.58	53.95	35.29	18.03

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Europe (cont.)								
Switzerland	1948-53	M	66.36	67.81	59.64	50.16	31.88	15.69
		F	70.85	71.86	63.55	53.86	35.02	17.77
United Kingdom								
England and Wales/11	1953-55	M	67.46	68.46	59.92	50.27	31.42	15.04
		F	72.86	73.52	64.93	55.15	36.08	18.67
Northern Ireland*	1950-52	M	65.4	—	59.1	49.5	—	—
		F	68.8	—	62.0	52.3	—	—
Scotland	1955	M	65.78	67.04	58.60	48.96	30.33	14.54
		F	70.60	71.59	63.03	53.28	34.37	17.29
U. S. S. R. /12	1954-55	M	61	—	—	—	—	—
		F	67	—	—	—	—	—
Asia								
Ceylon /13	1954	M	60.3	64.3	60.2	51.0	33.1	16.6
		F	59.4	62.7	59.3	50.3	33.6	16.8
India /d	1941-50	M	32.45	39.00	38.97	33.03	20.53	10.13
		F	31.66	37.30	39.45	32.90	21.06	11.33
Israel (Jews)	1955	M	69.4	71.0	62.7	53.2	34.4	17.3
		F	72.1	73.4	65.1	55.3	36.3	18.9
Japan	1955	M	63.88	65.64	58.19	48.77	31.15	15.33
		F	68.41	69.99	62.47	52.95	35.11	18.59
Thailand	1947-48	M	48.69	52.00	47.87	39.81	25.56	12.69
		F	51.90	55.20	50.90	42.71	28.43	14.20
Africa								
Belgian Congo								
African population /e	1950-52	M	37.64	42.45	41.40	34.41	21.48	10.63
		F	40.00	44.14	43.23	36.29	23.33	12.27
Mauritius (ex. dep.) /f	1951-53	M	49.79	54.71	49.23	40.11	23.58	11.18
		F	52.29	56.74	52.22	43.67	28.75	14.59
Réunion /4	1951-55	M	47.5	53.8	49.8	40.8	25.1	12.4
		F	53.4	59.3	56.1	47.1	31.4	16.9
Union of South Africa								
Europeans	1945-47	M	63.78	65.51	57.71	48.35	30.38	15.34
		F	68.31	69.63	61.73	52.27	34.07	18.04
Coloureds	1945-47	M	41.70	47.81	44.92	36.83	23.97	13.16
		F	44.00	49.53	47.01	39.42	27.26	14.97
Asiatics	1945-47	M	50.70	54.29	48.78	40.22	24.82	11.97
		F	49.75	52.82	47.47	39.30	24.78	11.96

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age					
			0	1	10	20	40	60
Oceania								
Australia /g	1946-48	M	66.07	67.25	59.04	49.64	31.23	15.36
		F	70.63	71.45	63.11	53.47	34.91	18.11
New Zealand								
Europeans	1950-52	M	68.29	69.03	60.60	51.15	32.65	16.19
		F	72.43	72.90	64.37	54.64	35.64	18.53
Maoris.....	1950-52	M	54.05	57.69	50.99	42.21	26.41	12.81
		F	55.88	59.08	52.05	43.29	27.00	14.41

* Provisional.

a/ Computed by the Statistical Bureau of the Metropolitan Life Insurance Company from mortality and population data supplied by the Dominion Bureau of Statistics. Official Canadian life tables are normally published immediately after each national census; since Canada took a census in 1956, life tables will be published by the Dominion Bureau of Statistics as soon as the final population and mortality data for that year are available.

b/ Martinique and Guadeloupe.

c/ Excluding tribal Indian population and data for Canal Zone.

d/ Data relate to an area with 294,749,000 inhabitants at the census in 1951. Values for ages under 5 and for age 60 are estimated.

e/ Based on sample surveys of approximately 4 per cent of population.

f/ Excluding Chinese.

g/ Excluding full-blooded aborigines.

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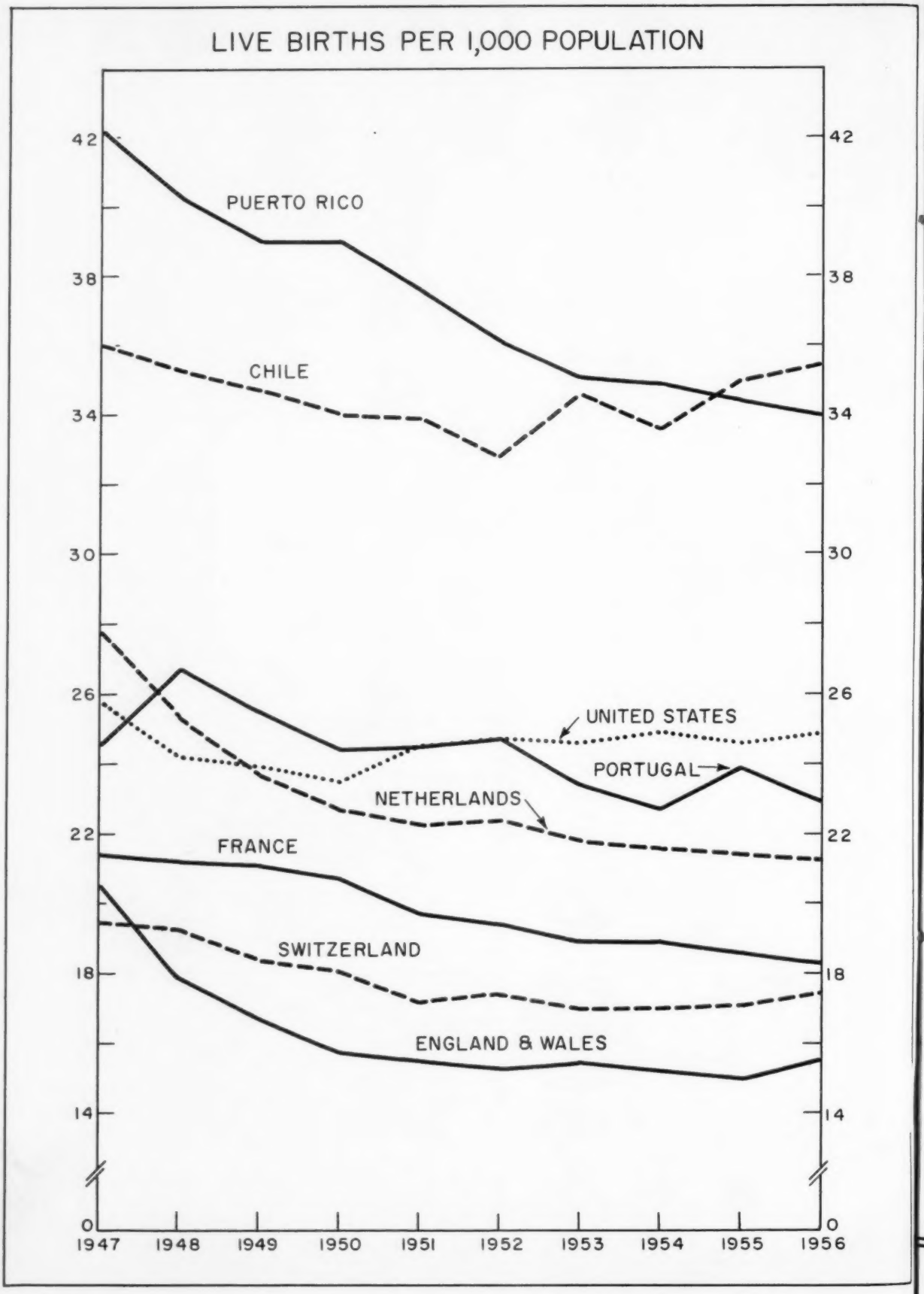
LIVE BIRTHS PER 1,000 POPULATION
PUERTO RICO
CHILE
UNITED STATES
PORTUGAL
NETHERLANDS
FRANCE
SWITZERLAND
ENGLAND & WALES
42
38
34
30
26
22
18
14
0
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956

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POPULATION INDEX

VOLUME 23
1957

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